

DFCM CODE ANALYSIS

APPLICABLE CODES

Code	Year	Code	Year
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for Building Conservation	2006
International Plumbing Code	2006	ADA Accessibility Guidelines	2006
International Fire Code	2006		
International Energy Conservation Code	2006		

A. Occupancy and Group: A-3 B
 Change in Use: Yes * No * Mixed Occupancy: Yes * No *
 Special Use and Occupancy (e.g. High Rise, Covered Mall): N/A

B. Seismic Design Category: N/A Design Wind Speed: N/A mph

C. Type of Construction (circle one): ASSUMED IIA
 I A I B I C I D I E I F I G I H I J I K I L I M I N I O I P I Q I R I S I T I U I V I W I X I Y I Z

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
 North: N/A South: N/A East: N/A West: N/A

E. Mixed Occupancies: N/A Nonseparated Uses: N/A

F. Sprinklers:
 Required: Provided: Type of Sprinkler System:

G. Number of Stories: Building Height: N/A

H. Actual Area per Floor (square feet):

I. Tabular Area: N/A

J. Area Modifications: N/A

$$A_s = A_t + \left[\frac{A_t I_t}{100} \right] + \left[\frac{A_t I_s}{100} \right] \quad I_t = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$$

b) Sum of the Ratio Calculations for Mixed Occupancies: N/A

$$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$$

c) Total Allowable Area for: N/A

- 1) One Story:
- 2) Two Story: A_s (2)
- 3) Three Story: A_s (3)

d) Unlimited Area Building: Yes N/A No N/A Code Section: N/A

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	<u>N/A</u>	<u>ANSI UL 263</u>	Floors - Ceiling Floors	<u>N/A</u>	<u> </u>
Interior Bearing Walls	<u>N/A</u>	<u>ANSI UL 263</u>	Roofs - Ceiling Roofs	<u>N/A</u>	<u> </u>
Exterior Non-Bearing Walls	<u>N/A</u>	<u>ANSI UL 263</u>	Exterior Doors and Windows	<u>N/A</u>	<u> </u>
Structural Frame	<u>N/A</u>	<u>ANSI UL 263</u>	Shaft Enclosures	<u>N/A</u>	<u> </u>
Partitions - Permanent	<u>N/A</u>	<u>ANSI UL 263</u>	Fire Walls	<u>N/A</u>	<u> </u>
Fire Barriers	<u>N/A</u>	<u>ANSI UL 263</u>	Fire Partitions	<u>N/A</u>	<u> </u>
			Smoke Partitions	<u>N/A</u>	<u> </u>

L. Design Occupant Load: See below

Exit Width Required: N/A Exit Width Provided: N/A

NEW ROOM #318:
 AREA OF NEW ROOM #318 - 1,440 SF
 AREA ALLOWANCE - IBC 2006 TABLE 1004.1.1 - 5F FACTOR
 EDUCATIONAL CLASSROOM - 20 SF PER PERSON
 OCCUPANCY OF NEW CLASSROOM 1 - 1440 / 20 = 72 PERSONS
 EXITING - IBC 2006 SECTION 1004
 EXITING OVER 50 PERSONS - TWO (2) EXITS REQUIRED
 ONE-THIRD DIAGONAL DISTANCE - 19'-0" MIN.
 TWO (2) EXITS PROVIDED 20'-0" APART
 EXIT WIDTH - IBC 2006 TABLE 1005.1 - 0.15 PER OCCUPANT
 EXIT WIDTH REQUIRED - 72 * 0.15 = 10.8 INCHES
 EXIT WIDTH PROVIDED - SIX FEET

NEW ROOM #390:
 AREA OF NEW ROOM #390 - 1,572 SF
 AREA ALLOWANCE - IBC 2006 TABLE 1004.1.1 - 5F FACTOR
 EDUCATIONAL CLASSROOM - 20 SF PER PERSON
 OCCUPANCY OF NEW CLASSROOM 1 - 1572 / 20 = 79 PERSONS
 EXITING - IBC 2006 SECTION 1004
 EXITING OVER 50 PERSONS - TWO (2) EXITS REQUIRED
 ONE-THIRD DIAGONAL DISTANCE - 18'-4" MIN.
 TWO (2) EXITS PROVIDED 19'-8" APART
 EXIT WIDTH - IBC 2006 TABLE 1005.1 - 0.15 PER OCCUPANT
 EXIT WIDTH REQUIRED - 79 * 0.15 = 11.85 INCHES
 EXIT WIDTH PROVIDED - SIX FEET

M. Minimum Number of Required Plumbing Facilities: N/A

- a) Water Closets - Required (m) N/A (f) Provided (m) (f)
- b) Lavatories - Required (m) N/A (f) Provided (m) (f)
- c) Bath Tubs or Showers: N/A
- d) Drinking Fountains: N/A Service Sinks:

FOOTNOTES:

- 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
- 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
 - a) High Rise Requirements.
 - b) Atriums.
 - c) Performance Based Criteria.
 - d) Means or Egress Analysis.
 - e) Fire Assembly Locator Sheet.
 - f) Exterior and Interior Accessibility Route.
 - g) Fire Stopping, Including Tested Design Number.

* REMODEL OF EXISTING BUILDING WHICH RETURNS THE SPACES TO THEIR ORIGINAL USE.

GENERAL NOTES:

1. GENERAL CONTRACTOR TO MAKE DEFERRED SUBMITTAL TO DFCM OF THE NEW FIRE SPRINKLER HEAD LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
2. WALLS OF THE NEW CLASSROOMS TO BE RATED 1-HOUR.
3. DRAWINGS INCORPORATE APPLICABLE DFCM STANDARDS.

DRAWING LIST

GENERAL:
 GI-000 TITLE SHEET
 GI-001 COMPLIANT EXISTING EXITING PLAN - DIAGRAM

ARCHITECTURAL:
 AE101 DEMOLITION FLOOR PLAN
 AE102 ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS
 AE103 NEW REFLECTED CEILING PLANS & DETAILS

MECHANICAL:
 MD101 MECHANICAL DEMOLITION FLOOR PLAN
 M101 MECHANICAL FLOOR PLAN
 M201 MECHANICAL DETAILS

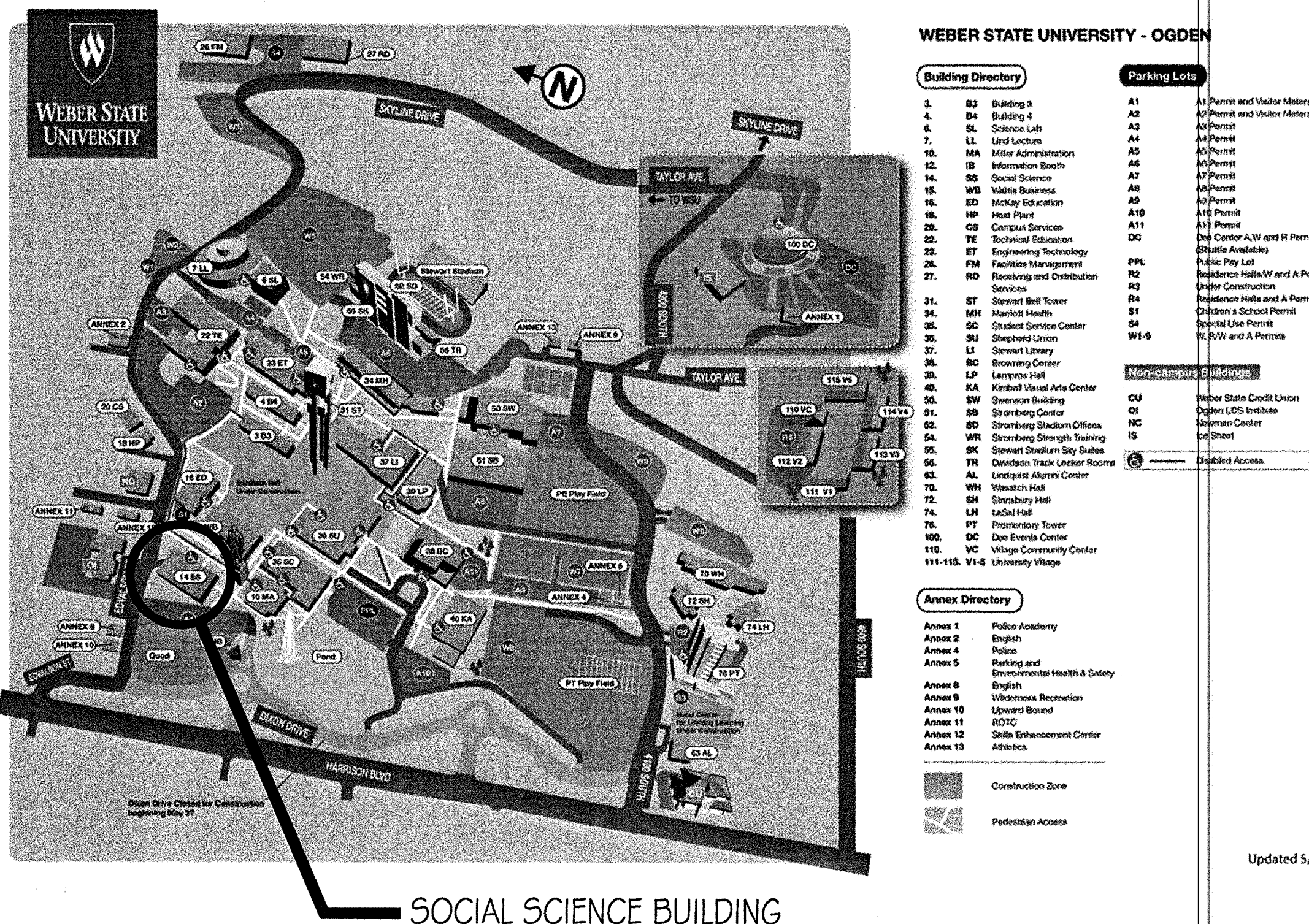
ELECTRICAL:
 E-001 SCHEDULES, DETAILS AND NOTES
 ED-101 DEMOLITION FLOOR PLAN - ELECTRICAL
 E-101 ELECTRICAL FLOOR PLAN
 E-201 LIGHTING PLAN

NOTE:
 NEW ROOM #318 IS ALSO REFERRED TO AS NEW CLASSROOM #1.
 NEW ROOM #390 IS ALSO REFERRED TO AS NEW CLASSROOM #2.

DEFERRED SUBMITTALS TO DFCM

1. FINAL FIRE SPRINKLER HEAD LOCATIONS TO BE SUBMITTED BY GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.

VICINITY MAP / WSU CAMPUS MAP



SOCIAL SCIENCE BUILDING

March 02, 2009
 WEBER STATE UNIVERSITY
 14.55 SOCIAL SCIENCE BUILDING
 3RD FLOOR REMODEL (2 NEW CLASSROOMS)

CRSA

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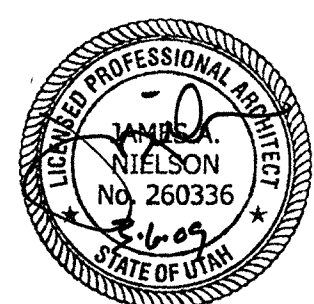
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SOCIAL SCIENCE BUILDING
 3RD FLOOR REMODEL

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 CAMPUS DEVELOPMENT
 2601 UNIVERSITY CIRCLE
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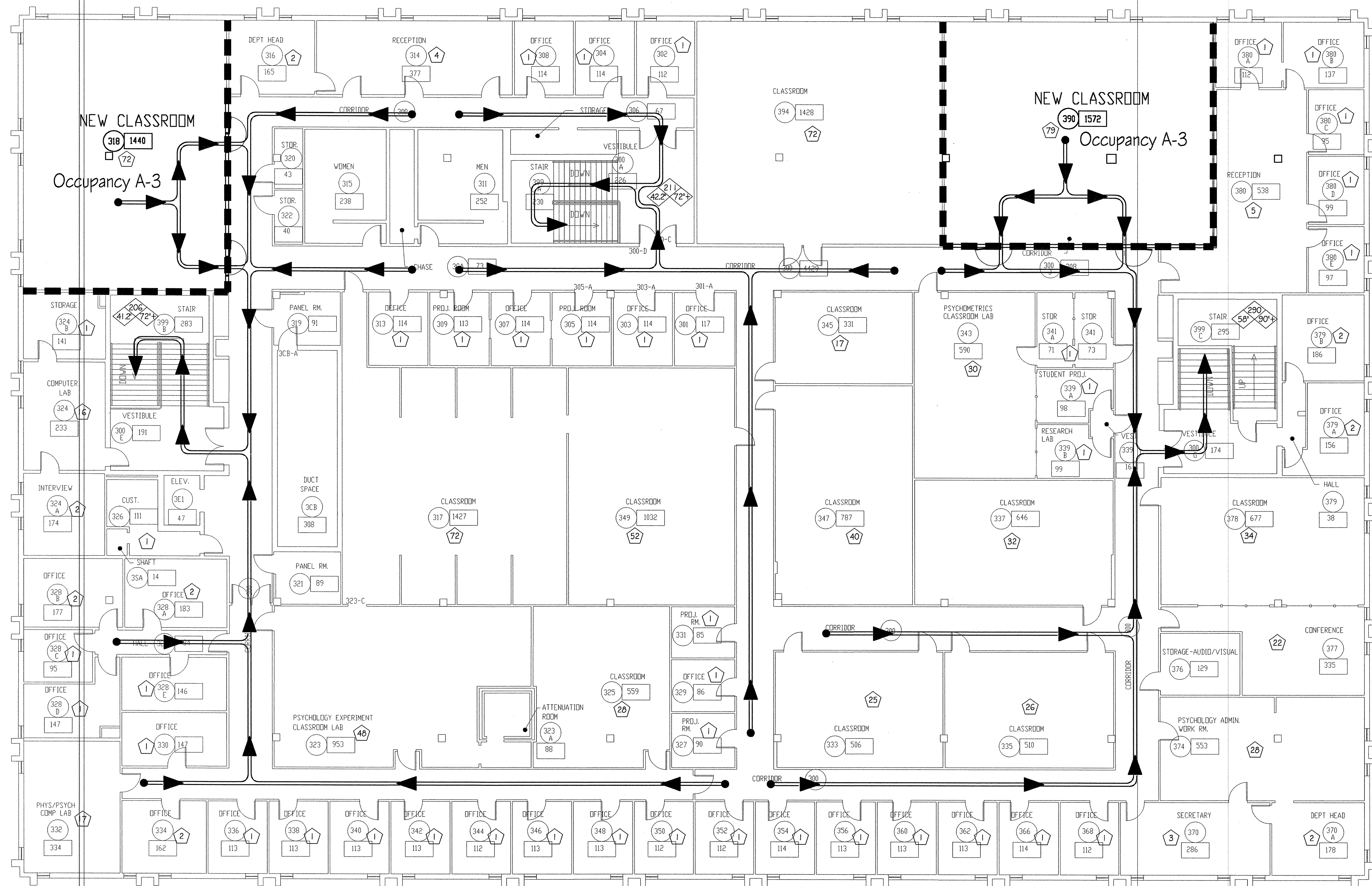
DFCM: TIM PARKINSON
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TITLE SHEET

G1000



EXITING PLAN LEGEND:

- (390) ROOM NUMBER
- 1572 SQUARE FOOTAGE OF ROOM
- 28 NUMBER OF OCCUPANTS (3RD FLOOR ONLY, MARCH 02, 2009)
- DIRECTION OF EXITING
- 295/75/75 ACCUMULATED OCCUPANTS AT THIS EXIT
EXIT WIDTH PROVIDED
EXIT WITH REQUIRED PER 2006 IBC TABLE 1005.1
- NEW 1-HOUR RATED WALL, SEE DETAILS ON SHEET AE103.

GENERAL NOTES:

1. THIS EXISTING BUILDING EXITING PLAN EXERCISE IS PROVIDED AT DFCM'S REQUEST FOR THE THIRD FLOOR ONLY.
2. INFORMATION OTHER THAN THE NEW CONSTRUCTION AREA IS PROVIDED BY WEBER STATE UNIVERSITY.
3. EXISTING EXIT CORRIDORS COMPLY WITH EXIT WIDTH REQUIREMENTS WITHOUT CHANGES TO EXISTING AREAS.



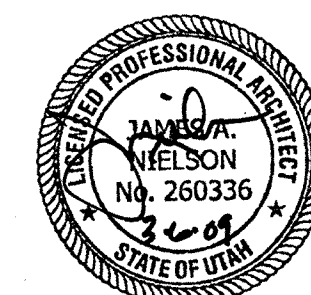
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EXISTING EXITING PLAN
DIAGRAM

G1001



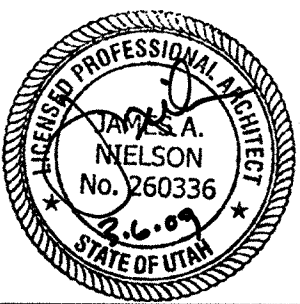
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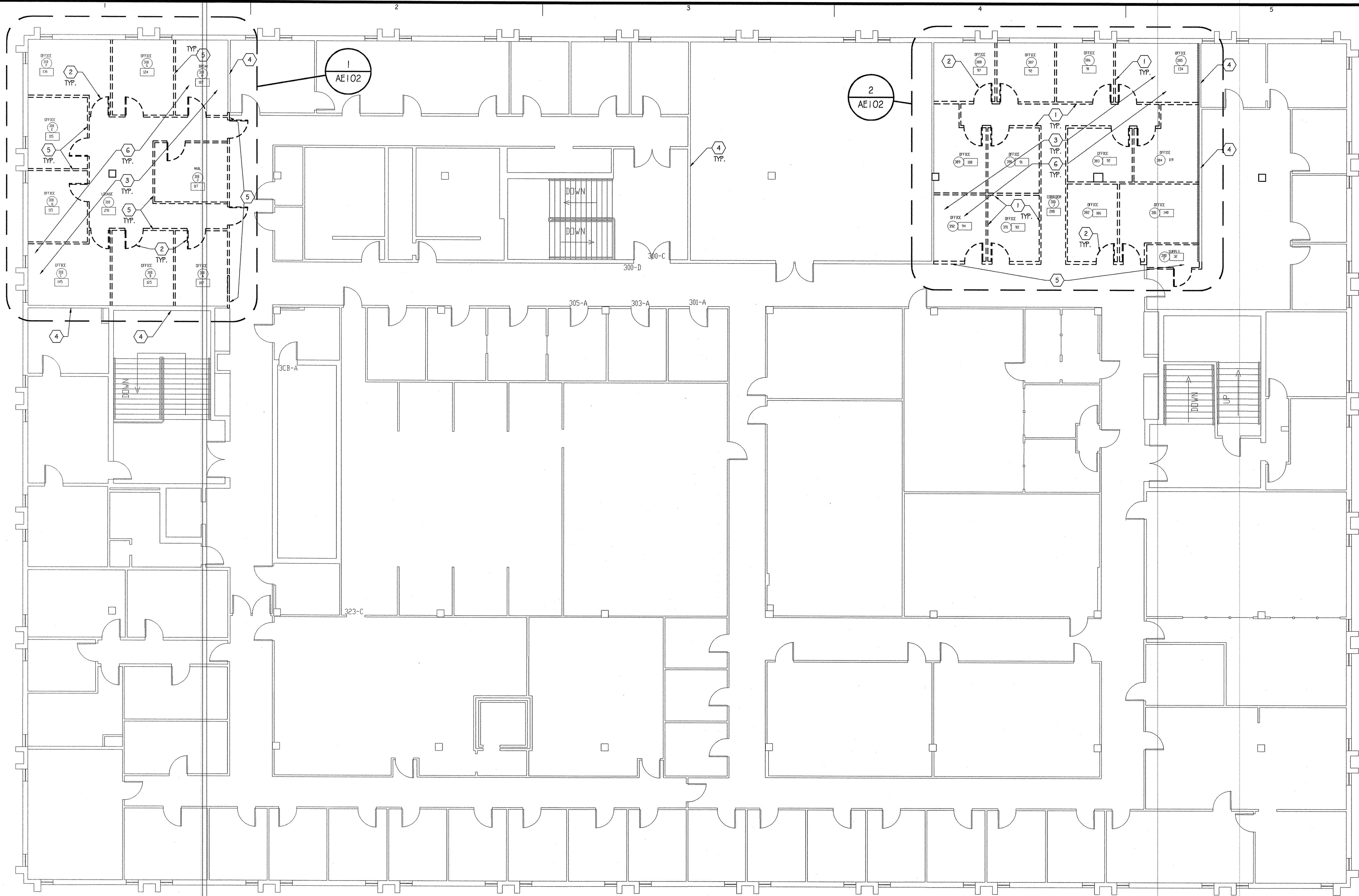
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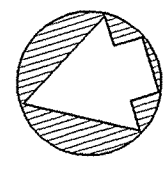
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FLOOR PLAN
DEMOLITION PLAN

AEIOI



1 DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0" 0 4' 8' 16'



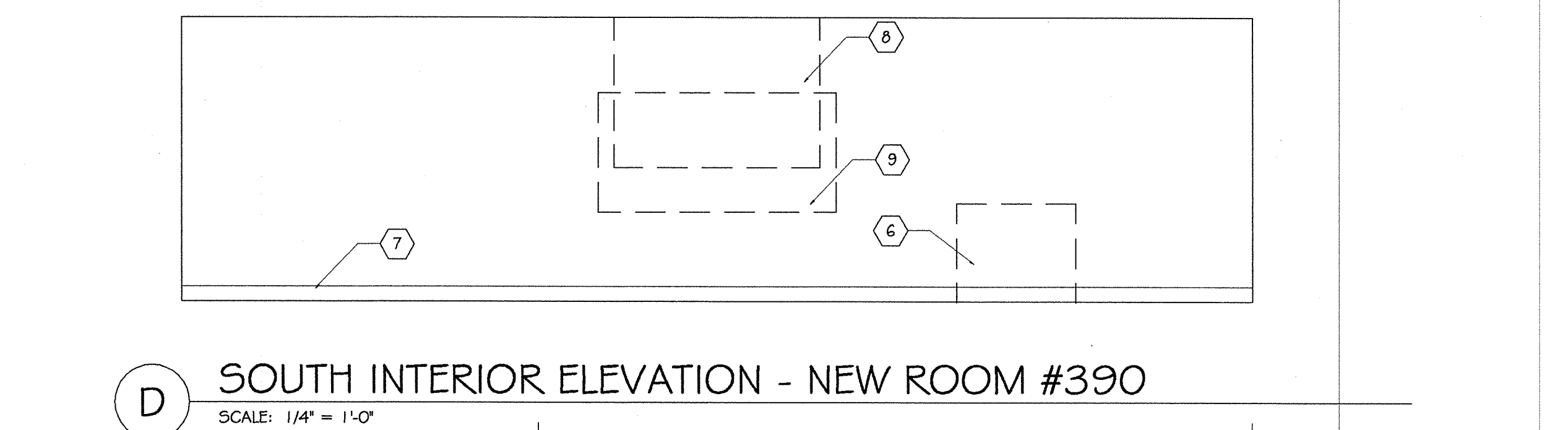
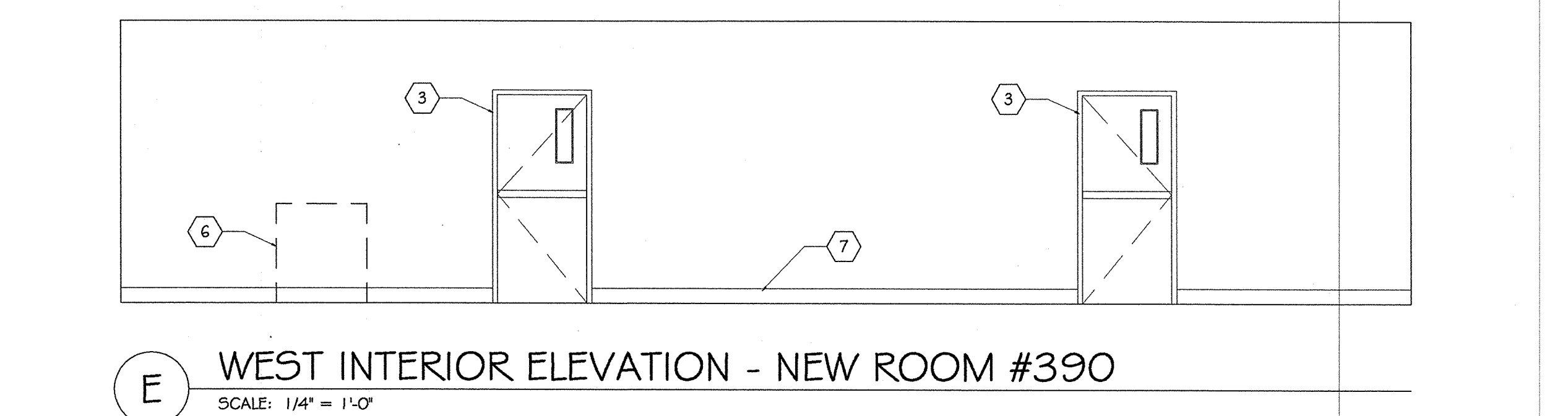
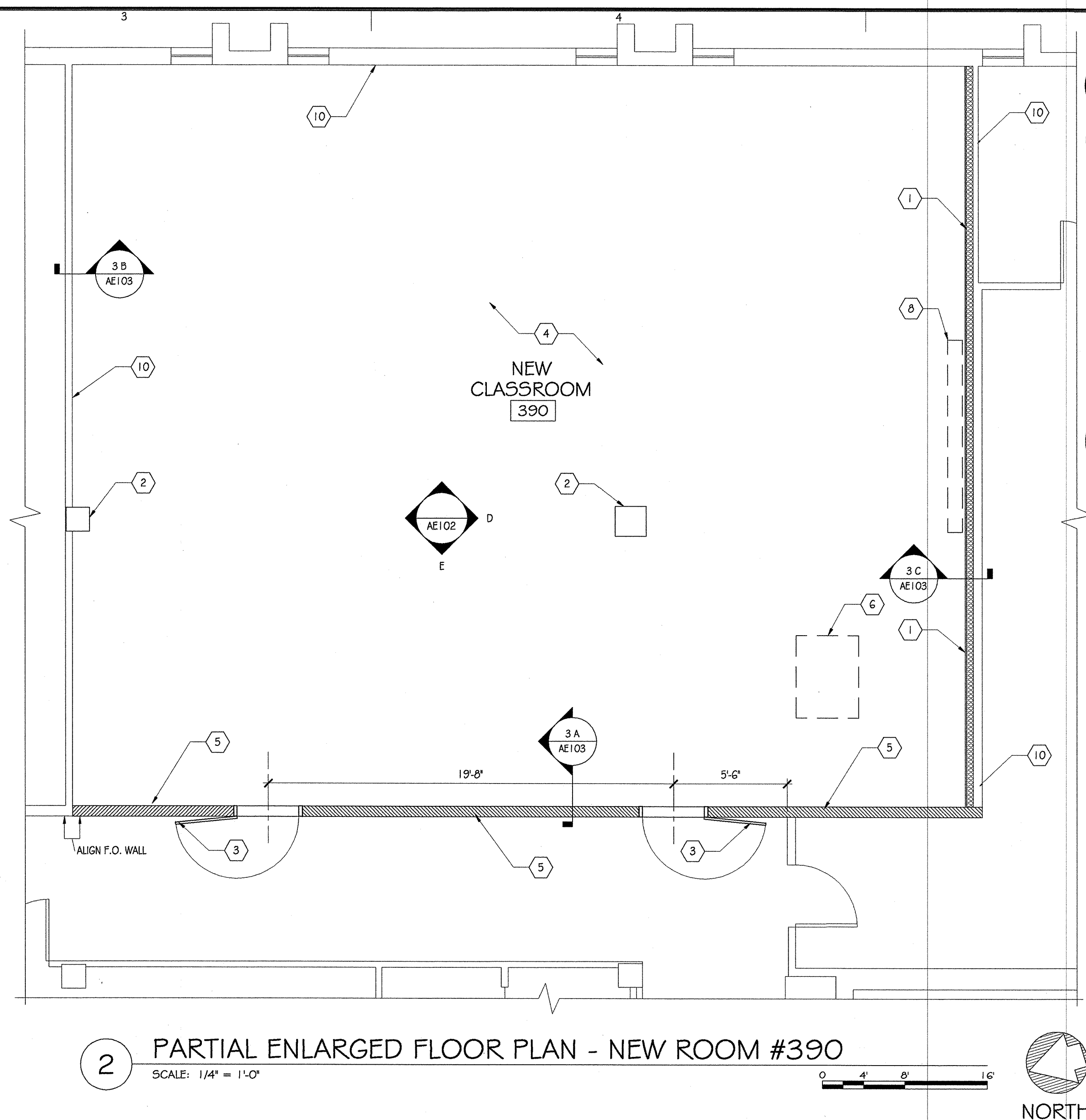
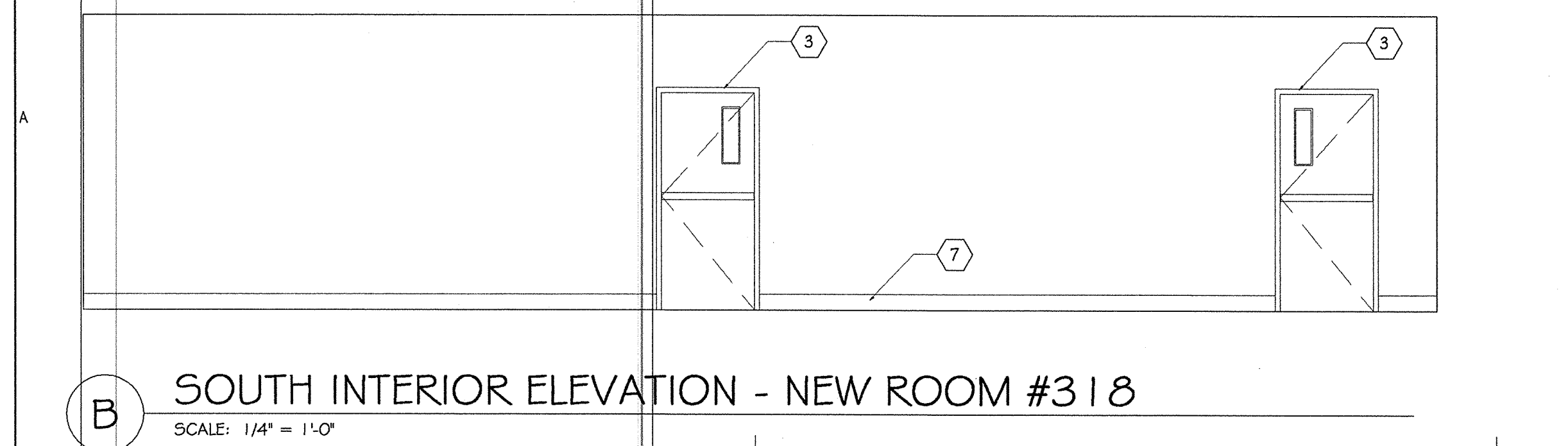
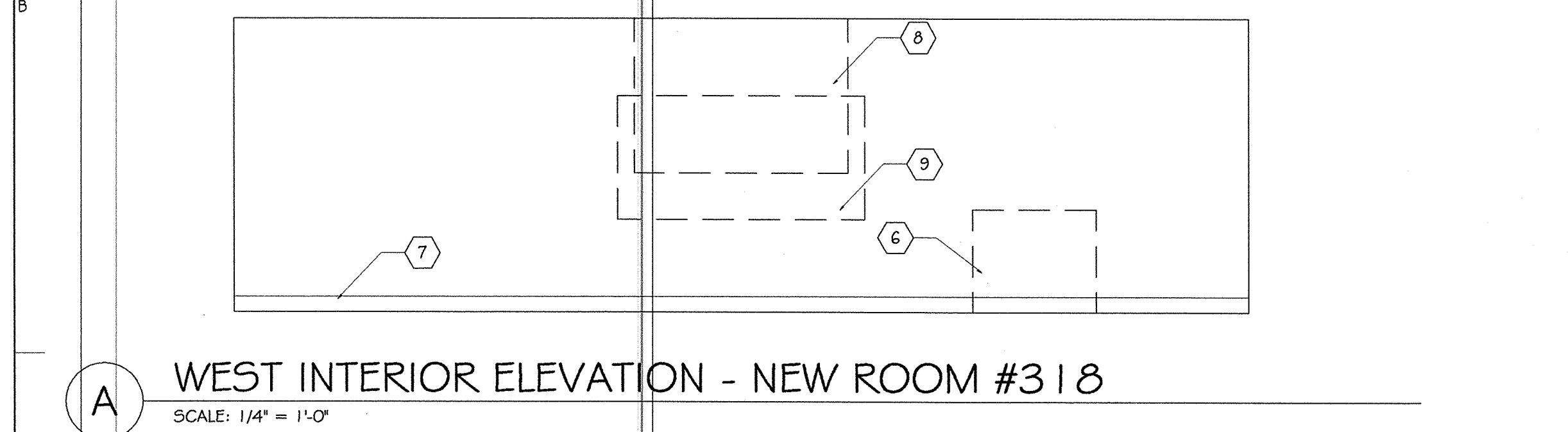
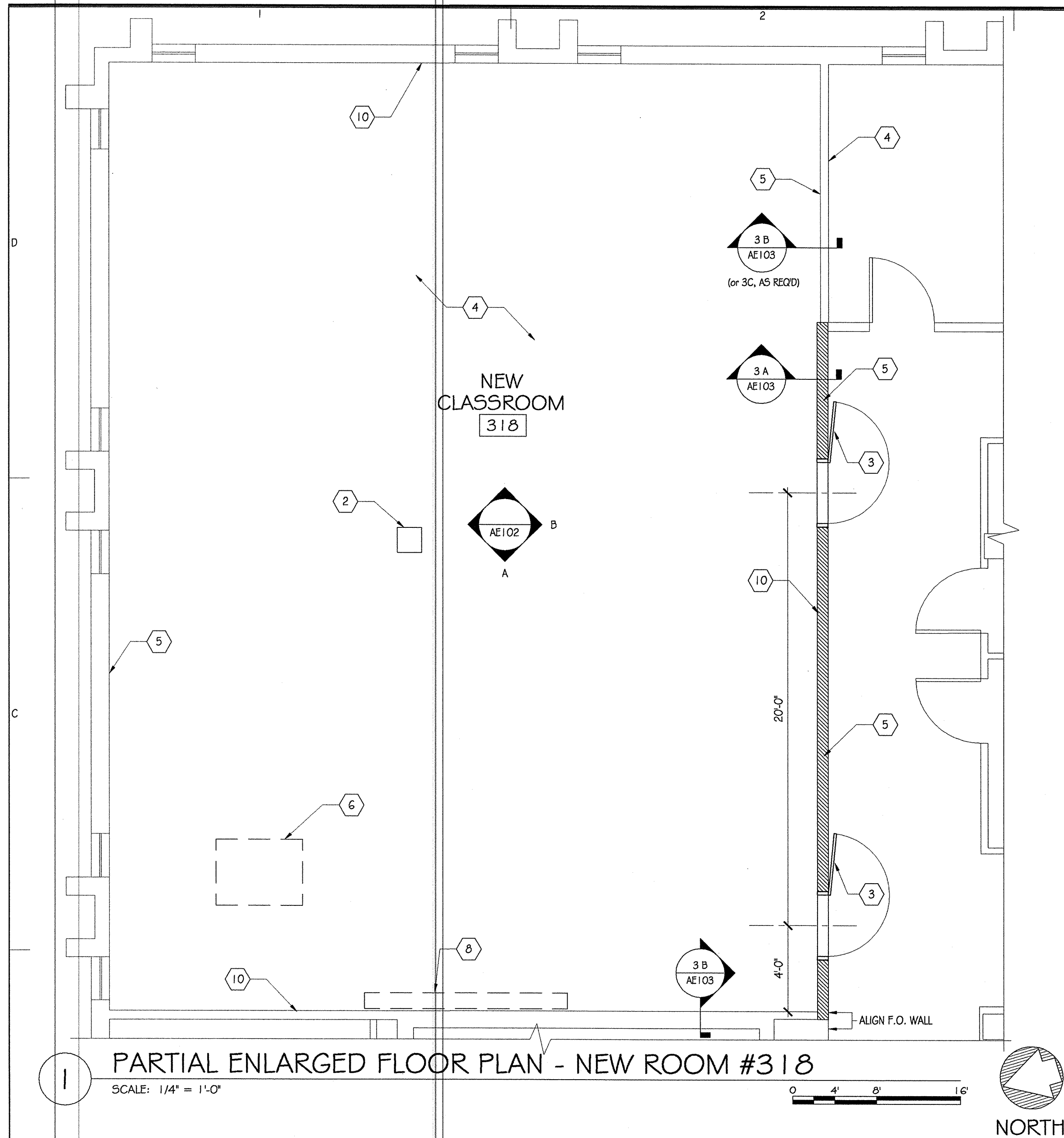
NORTH

GENERAL DEMO NOTES:

1. OWNER TO SALVAGE ALL LOCKING HARDWARE AND DOOR CLOSERS FOR REUSE AS COMPLIANT. CONTRACTOR TO PROVIDE ALL NEW DOORS WITH COMPLIANT HARDWARE.
2. REMOVE EXISTING DEMOUNTABLE PARTITIONS WHERE SHOWN - IF, DURING PRE-BID SITE VISIT IT IS DETERMINED THAT THE EXISTING DEMOUNTABLE PARTITIONS ARE REUSABLE, CONTRACTOR TO INCLUDE IN FRACE REUSE OF DEMOUNTABLE PARTITIONS IN LIEU OF NEW STUD WALLS.
3. REMOVE EXISTING CEILING TO INSIDE FACE OF EXISTING WALLS TO AVOID DAMAGING CEILINGS AT ADJACENT SPACES. SEE DETAILS 3A, 3B AND 3C ON SHEET AF103.

KEYED NOTES:

- 1 REMOVE EXISTING METAL STUD AND GYP WALLS, PATCH AND REPAIR ALL REMAINING AFFECTED SURFACES, READY FOR NEW FINISHES.
- 2 OWNER TO SALVAGE ALL LOCKING HARDWARE AND DOOR CLOSERS FOR REUSE, CONTRACTOR TO REMOVE REMAINING DOOR AND HARDWARE.
- 3 REMOVE EXISTING CEILING.
- 4 EXISTING WALLS N.I.C. TO REMAIN.
- 5 REMOVE EXISTING DEMOUNTABLE PARTITIONS.
- 6 REMOVE FLOOR COVERING AND BASE, READY FOR NEW CARPET. NEW BASE N.I.C.; NEW CARPET N.I.C.



- KEYED NOTES:**
1. FURR OUT EXISTING WALL, SEE DETAILS ON SHEET AE103.
 2. FINISH, PATCH AND REPAIR COLUMN WRAP FINISHES AS REQUIRED.
 3. NEW 1-HOUR RATED, FLUSH WOOD DOOR WITH GLAZED LITE, H.M. FRAME PAINTED, LESS THAN 100 SQ. INCHES, PANIC HARDWARE PER CODE, (MATCH CAMPUS STANDARD).
 4. NEW CARPET N.I.C., PREPARE EXISTING FLOOR AS REQUIRED FOR NEW CARPET, COORD. W/ OWNER.
 5. NEW 1-HOUR METAL STUD WALL SEALED TO DECK ABOVE, PAINTED. SEE DETAILS ON AE103.
 6. AV PODIUM, N.I.C., BY OWNER COORDINATE FINAL LOCATION WITH OWNER.
 7. NEW RUBBER BASE, N.I.C., COORD. W/ OWNER AS NECESSARY.
 8. WALL-MOUNTED MOTORIZED PROJECTION SCREEN, N.I.C., BY OWNER, PROVIDE BLOCKING AS REQUIRED.
 9. WALL-MOUNTED WHITE BOARD, CAMPUS STANDARD, N.I.C., BY OWNER, PROVIDE BLOCKING AS REQUIRED.
 10. EXISTING WALL TO REMAIN, REPAIR DAMAGE AS REQUIRED, SEE SHEET AE103.

- AE102 GENERAL NOTES:**
1. REPAINT FINISHED WALL SURFACES AS REQUIRED.
 2. PATCH & REPAIR ALL SURFACES AS REQUIRED.
 3. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
 4. COORDINATE HANDLING OF REUSABLE/ SALVAGED ITEMS WITH OWNER.



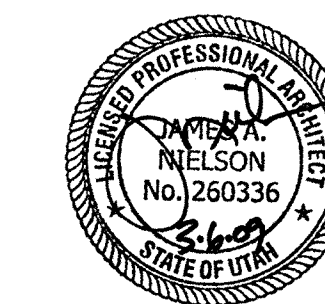
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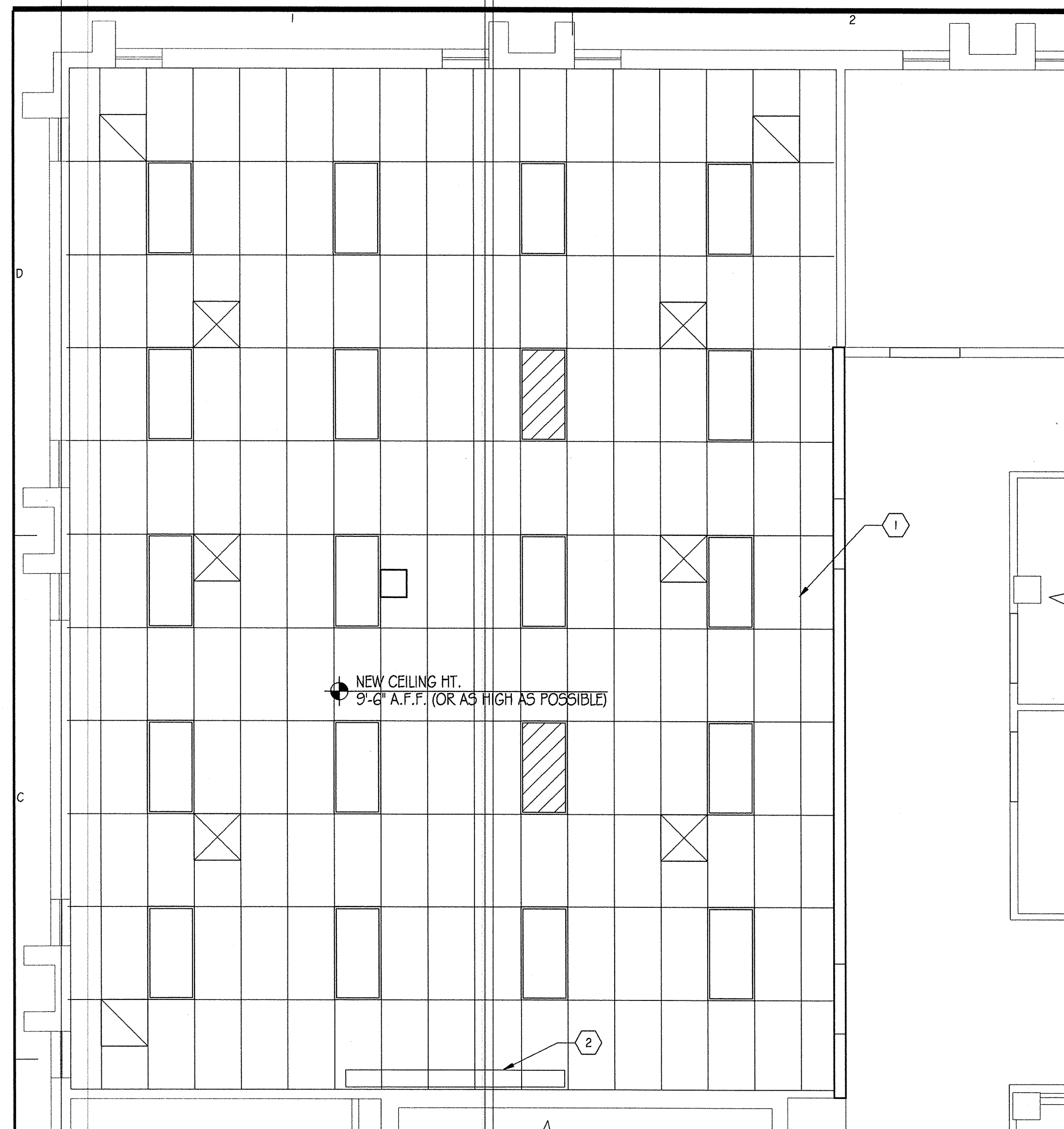
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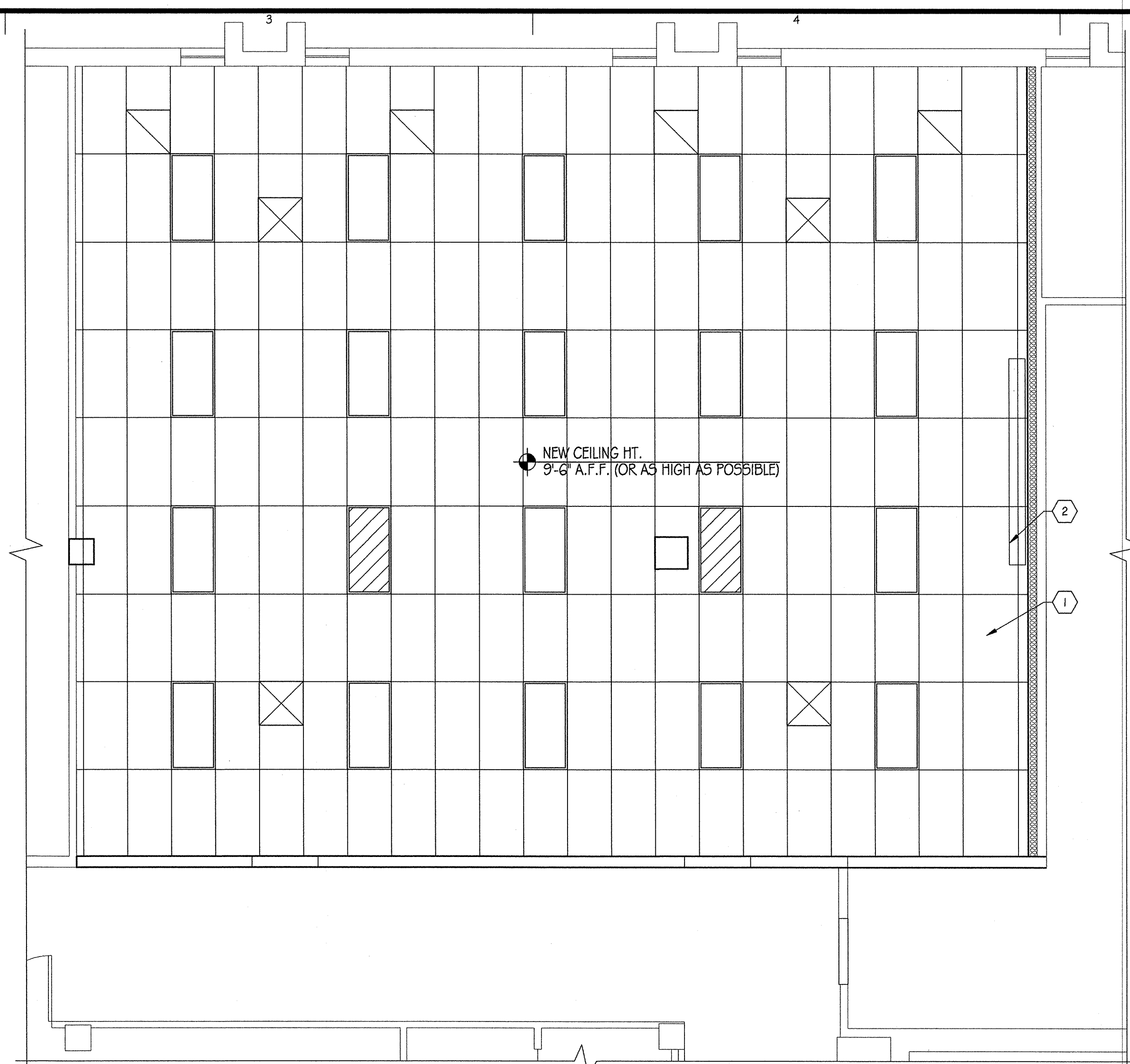
PARTIAL ENLARGED
FLOOR PLANS

AE102



1 NEW REFLECTED CEILING PLAN - NEW ROOM #318

SCALE: 1/4" = 1'-0"



2 NEW REFLECTED CEILING PLAN - NEW ROOM #390

SCALE: 1/4" = 1'-0"

KEYED NOTES:

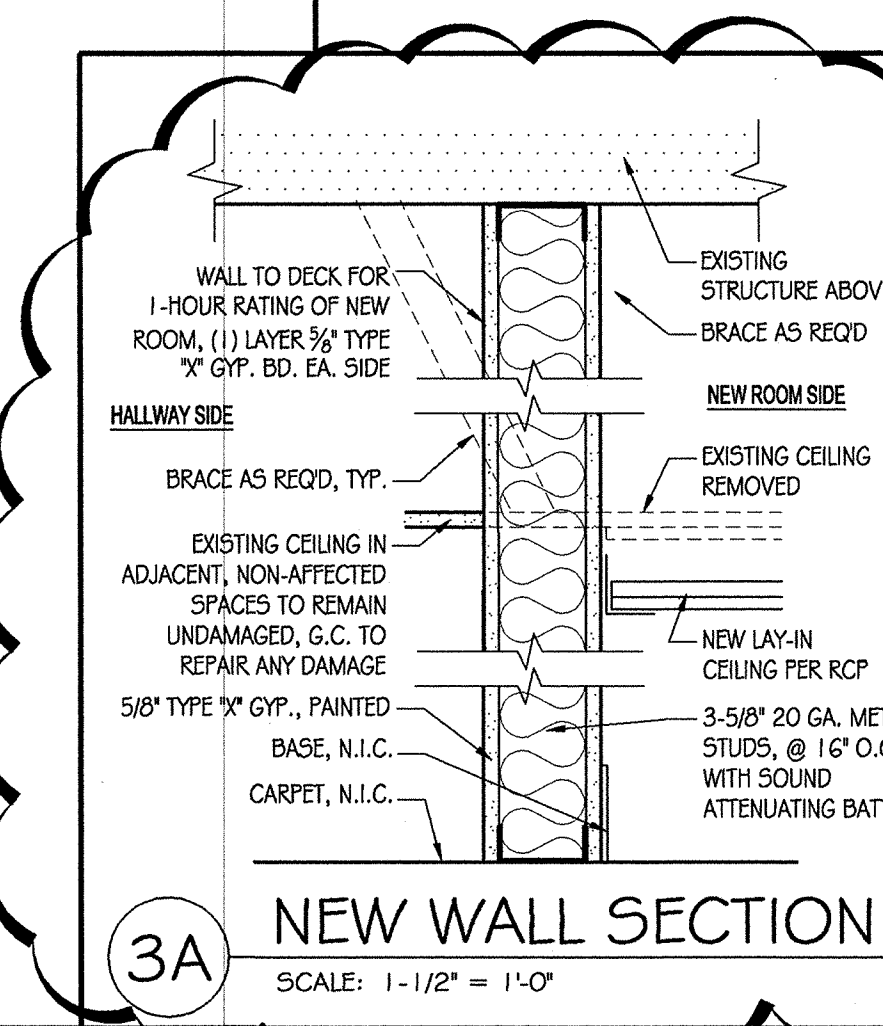
- 1 NEW 2'X4' LAY-IN CEILING.
- 2 WALL-MOUNTED PROJECTION SCREEN BY OWNER.

AE103 GENERAL NOTES:

1. RELOCATE EXISTING SPRINKLER HEADS INTO NEW CEILING.
2. EXISTING CEILING TO BE REMOVED. NEW CEILING GRID TO BE INSTALLED JUST BELOW LEVEL OF REMOVED EXISTING CEILING, AS HIGH AS POSSIBLE.
3. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
4. COORDINATE LOCATION OF CEILING MOUNTED AV EQUIPMENT, BLOCKING, ETC. WITH OWNER.

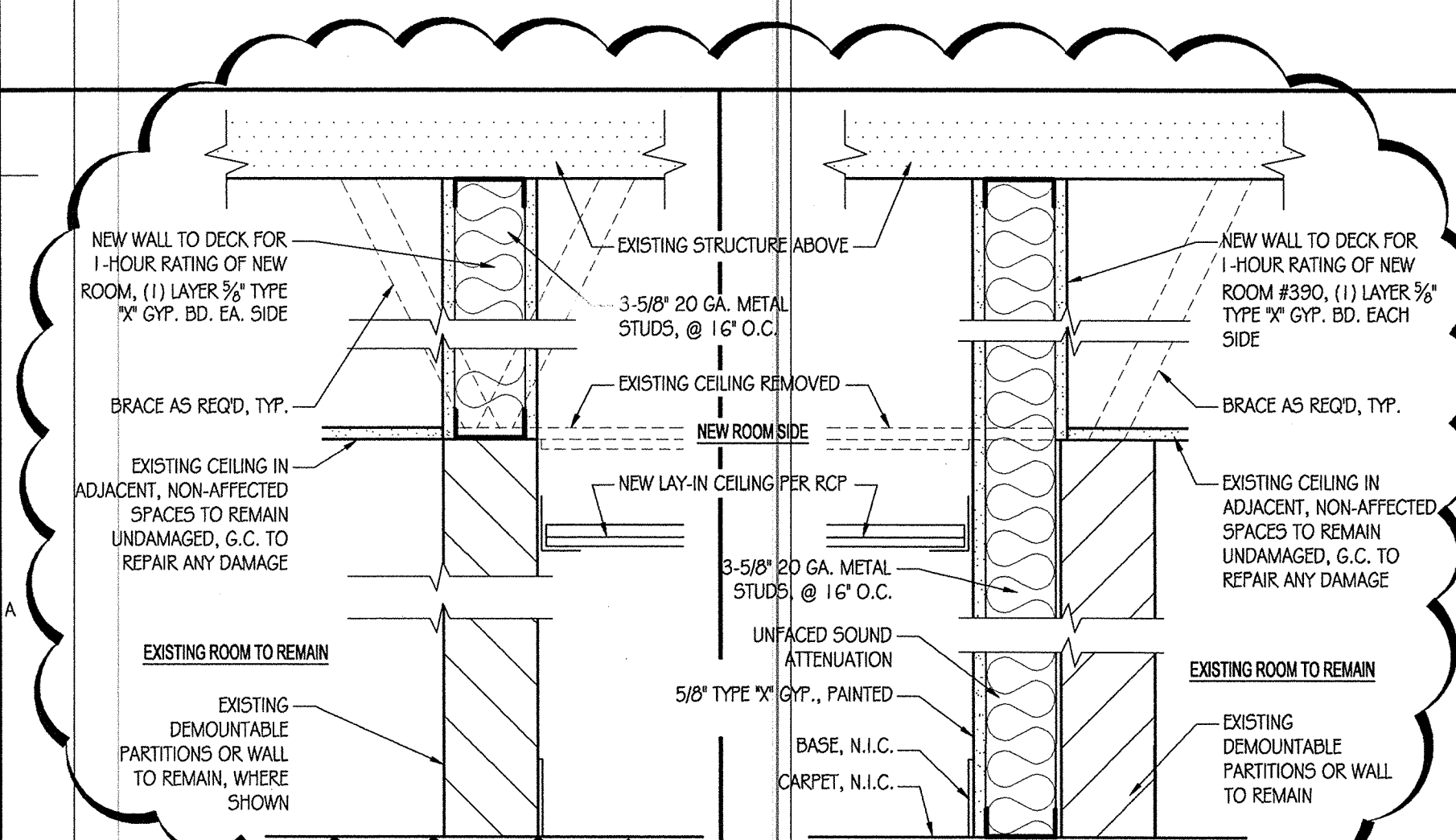
REFLECTED CEILING LEGEND

- 2' X 4' FLUORESCENT LIGHT FIXTURE
- 2' X 4' FLUORESCENT LIGHT FIXTURE ON EMERGENCY POWER
- RETURN AIR GRILLE IN NEW LAY-IN CEILING
- SUPPLY AIR DIFFUSER IN NEW LAY-IN CEILING



3A NEW WALL SECTION

SCALE: 1-1/2" = 1'-0"



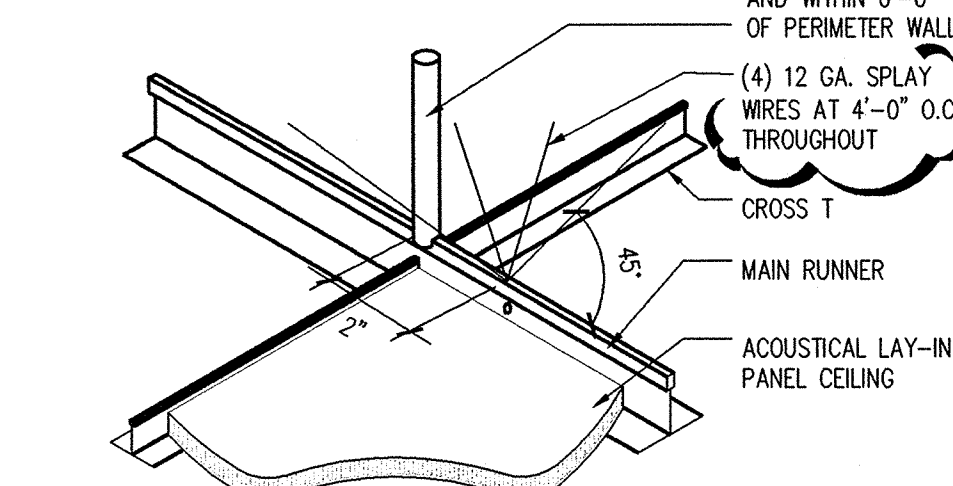
3B EXISTING WALL SEC.

SCALE: 1-1/2" = 1'-0"

3C FURRED WALL SECTION

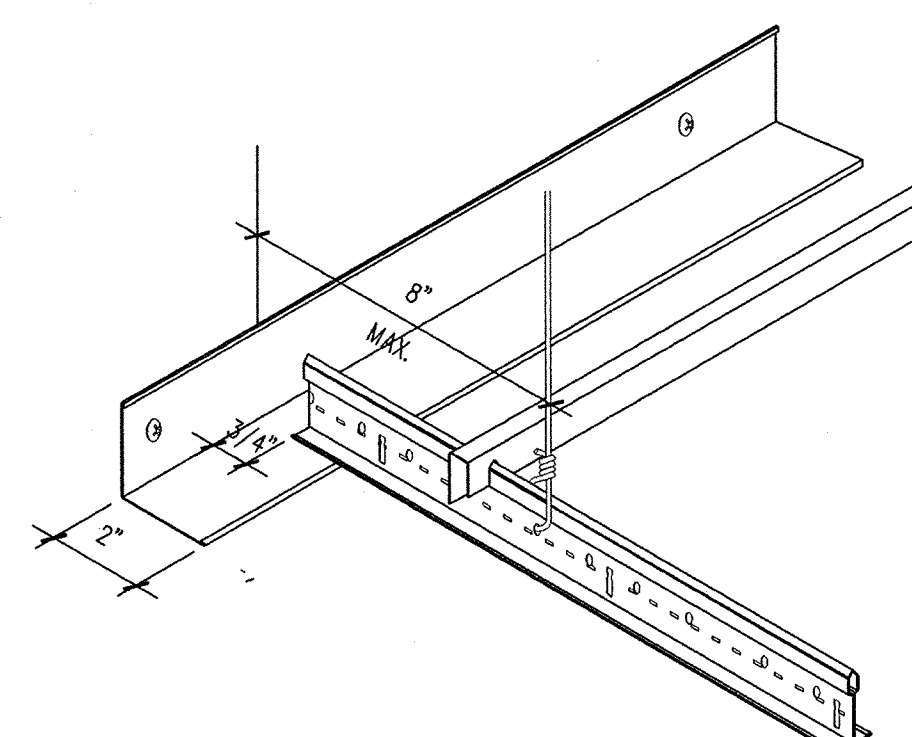
SCALE: 1-1/2" = 1'-0"

STRUT SIZE	MAXIMUM LENGTH
3/4" DIAMETER CONDUIT (EMT)	8'-6"
1" DIAMETER CONDUIT (EMT)	10'-0"
SINGLE 2 1/2" X 20 GA. METAL STUD (min = 0.18 in ⁴)	11'-6"
BACK TO BACK 2 1/2" X 20 GA. METAL STUDS SCREWED TOGETHER @ 24" O.C.	15'-0"



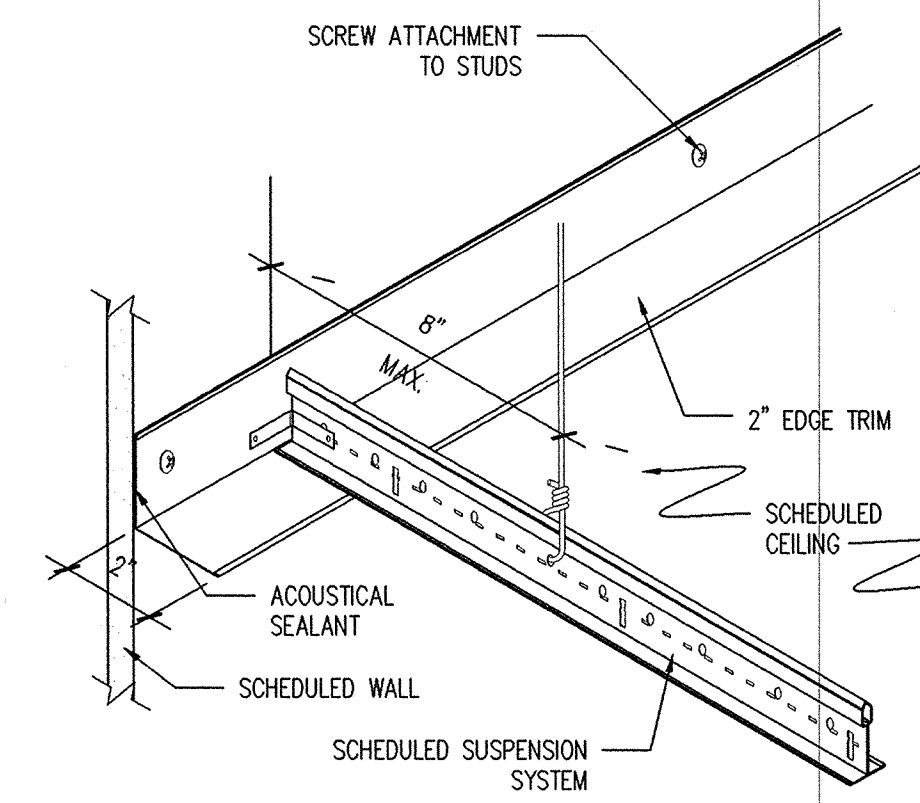
4 SEISMIC CEILING DETAIL

SCALE: N.T.S.



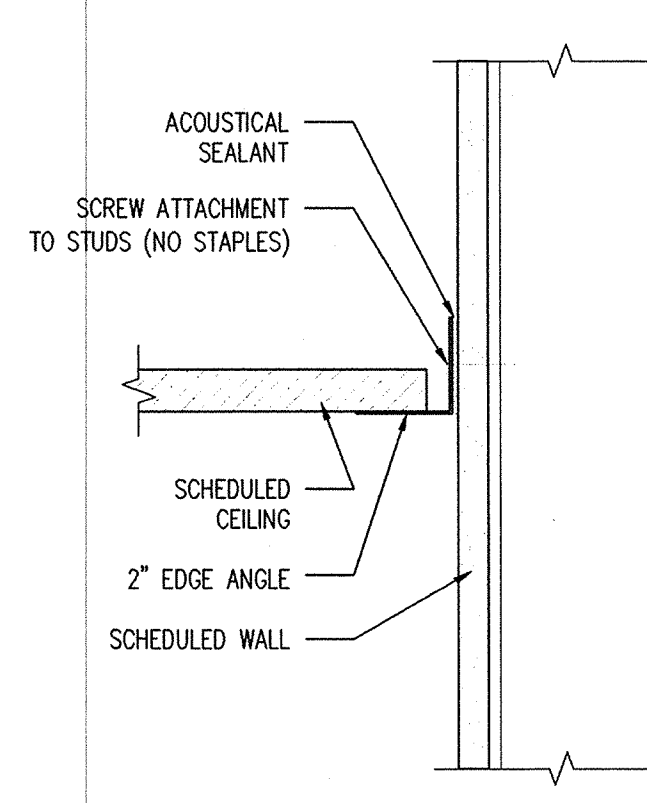
5 UNRESTRAINED EDGE DTL.

SCALE: N.T.S.



6 RESTRAINED EDGE DETAIL

SCALE: N.T.S.



7 CEILING DETAIL

SCALE: N.T.S.

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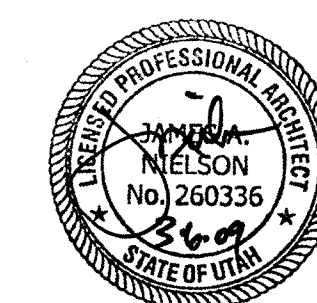
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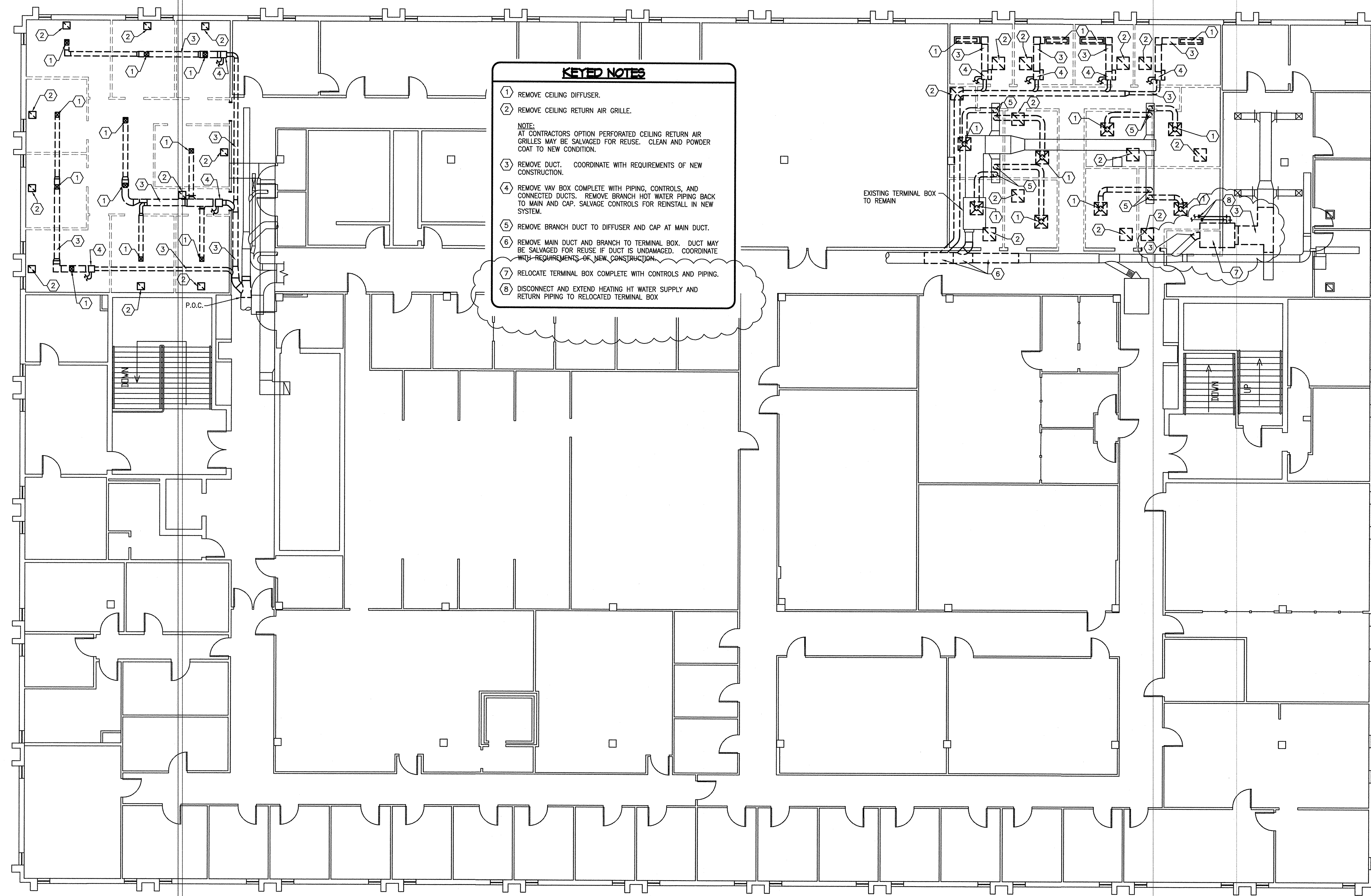
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REFLECTED CEILING
PLANS AND DETAILS

AE103



- KEYED NOTES**
- 1 REMOVE CEILING DIFFUSER.
 - 2 REMOVE CEILING RETURN AIR GRILLE.
 - NOTE:
AT CONTRACTOR'S OPTION PERFORATED CEILING RETURN AIR GRILLES MAY BE SALVAGED FOR REUSE. CLEAN AND POWDER COAT TO NEW CONDITION.
 - 3 REMOVE DUCT. COORDINATE WITH REQUIREMENTS OF NEW CONSTRUCTION.
 - 4 REMOVE VAV BOX COMPLETE WITH PIPING, CONTROLS, AND CONNECTED DUCTS. REMOVE BRANCH HOT WATER PIPING BACK TO MAIN AND CAP. SALVAGE CONTROLS FOR REINSTALL IN NEW SYSTEM.
 - 5 REMOVE BRANCH DUCT TO DIFFUSER AND CAP AT MAIN DUCT.
 - 6 REMOVE MAIN DUCT AND BRANCH TO TERMINAL BOX. DUCT MAY BE SALVAGED FOR REUSE IF DUCT IS UNDAMAGED. COORDINATE WITH REQUIREMENTS OF NEW CONSTRUCTION.
 - 7 RELOCATE TERMINAL BOX COMPLETE WITH CONTROLS AND PIPING.
 - 8 DISCONNECT AND EXTEND HEATING HT WATER SUPPLY AND RETURN PIPING TO RELOCATED TERMINAL BOX.

GENERAL NOTE
RETURN ANY UNUSED VAV CONTROLLERS AND THERMOSTATS TO OWNER.

1 MECHANICAL DEMOLITION PLAN
MD1.1 SCALE 1/8"=1'-0"

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3750 HARRISON BLVD.
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**SOCIAL SCIENCE BUILDING
3RD FLOOR REMODEL**

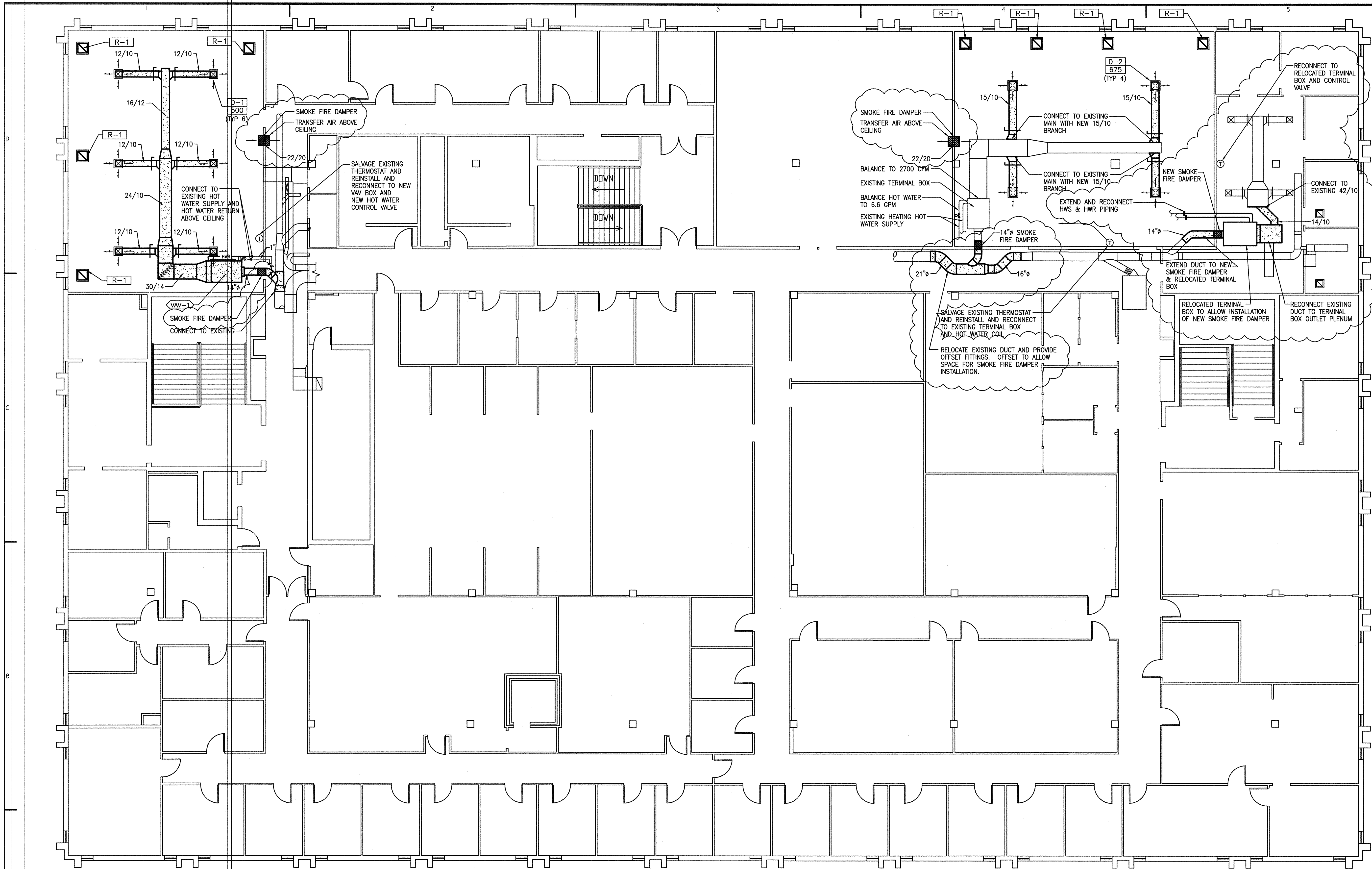
WSU: JIM HARRIS
CAMPUS DEVELOPMENT
2601 UNIVERSITY CIRCLE
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DFCM: TIM PARKINSON
DFCM PROJECT #08319810

DATE: MARCH 02, 2009
PROJECT NO: CRSA B08-033
CAD DWG FILE: p1808-033...drawresources... .dwg
DRAWN BY:
CHECKED BY: cel/drs

MECHANICAL
DEMOLITION FLOOR
PLAN

MD101
SHEET 1 OF 3



1 MECHANICAL FLOOR PLAN
M1.1 SCALE 1/8"=1'-0"



LEGEND AND ABBREVIATIONS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	HWS — HOT WATER SUPPLY (HEATING)		EXISTING DUCT BEING REMOVED
	HWR — HOT WATER RETURN (HEATING)		EXISTING DUCT TO REMAIN
	MANUAL DAMPER		NEW DUCT
	THERMOSTAT		DUCT TRANSITION
	SINGLE THICKNESS TURNING VANES		SMOKE FIRE DAMPER



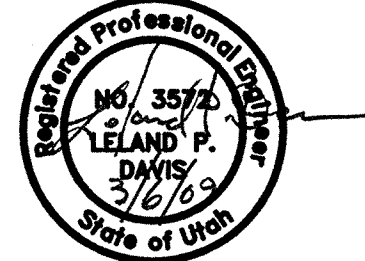
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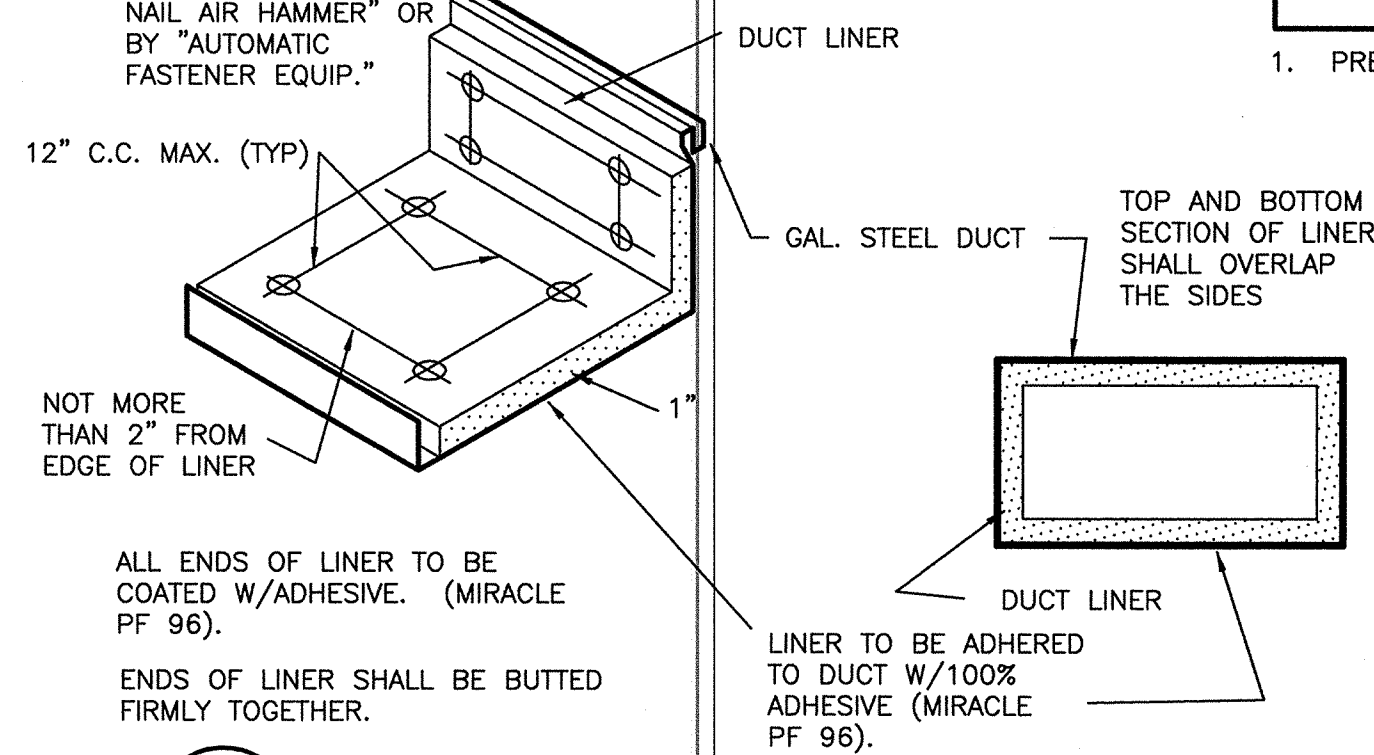
MECHANICAL FLOOR
PLAN

M101
SHEET 2 OF 3

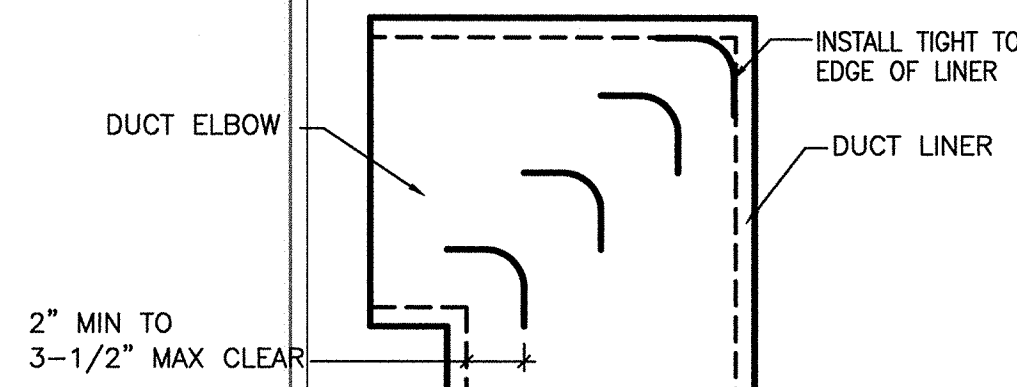
METAL FASTENERS:
OMARK INSUL. PINS,
DURO DYNE FASTENERS
OR GRIP NAILS.

GRIP NAILS SHALL BE
INSTALLED BY "GRIP"
NAIL AIR HAMMER" OR
BY "AUTOMATIC
FASTENER EQUIP."

ADHESIVE APPLIED STICK
PINS ARE NOT ALLOWED

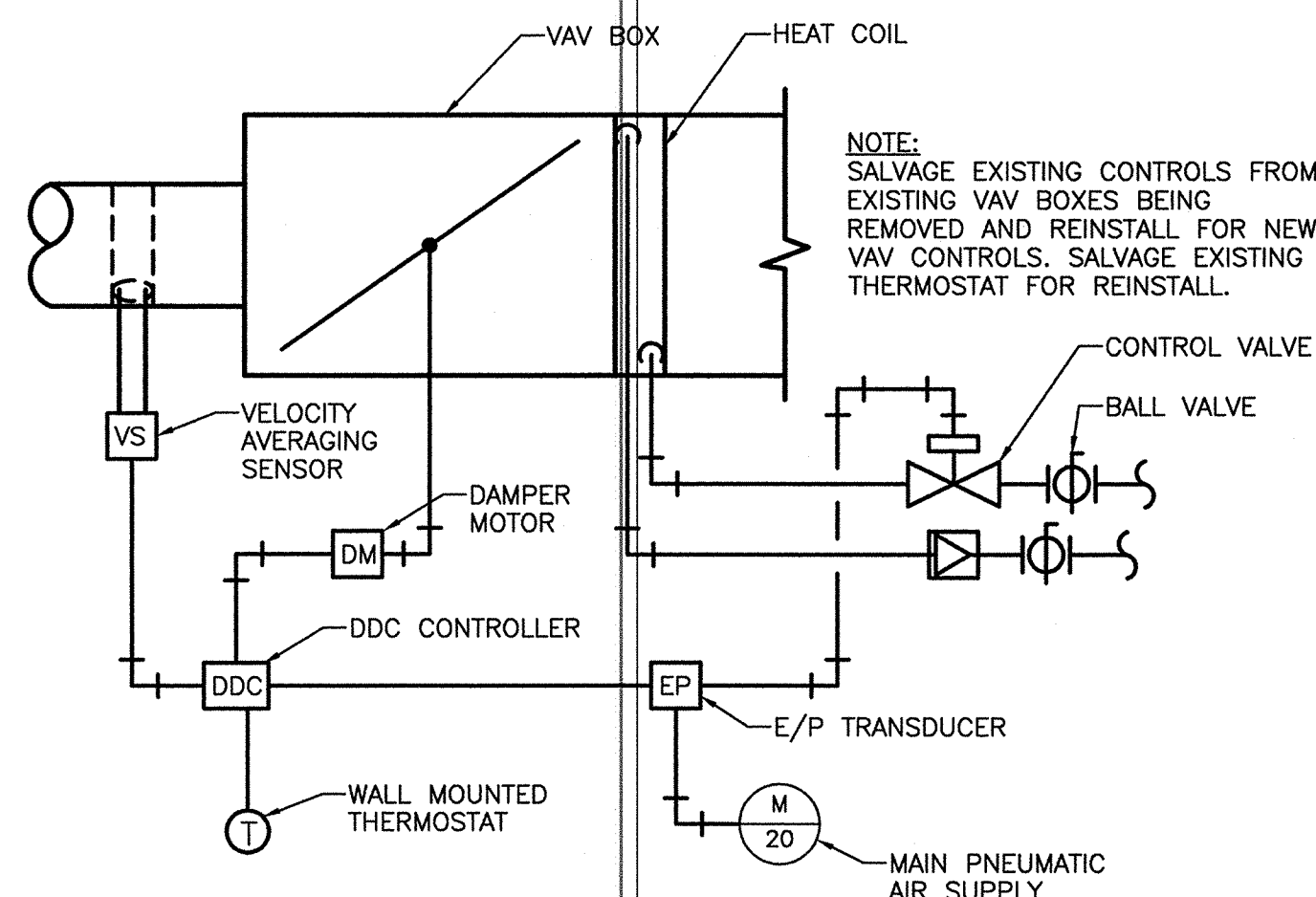


1 DUCT LINER DETAIL
M2.1 NOT TO SCALE

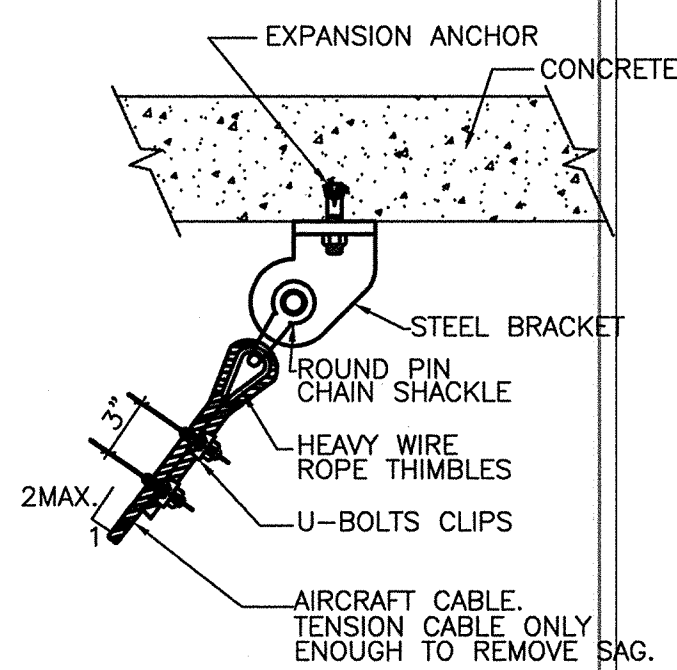


2 DUCT STRAP HANGER DETAIL
M2.1 NOT TO SCALE

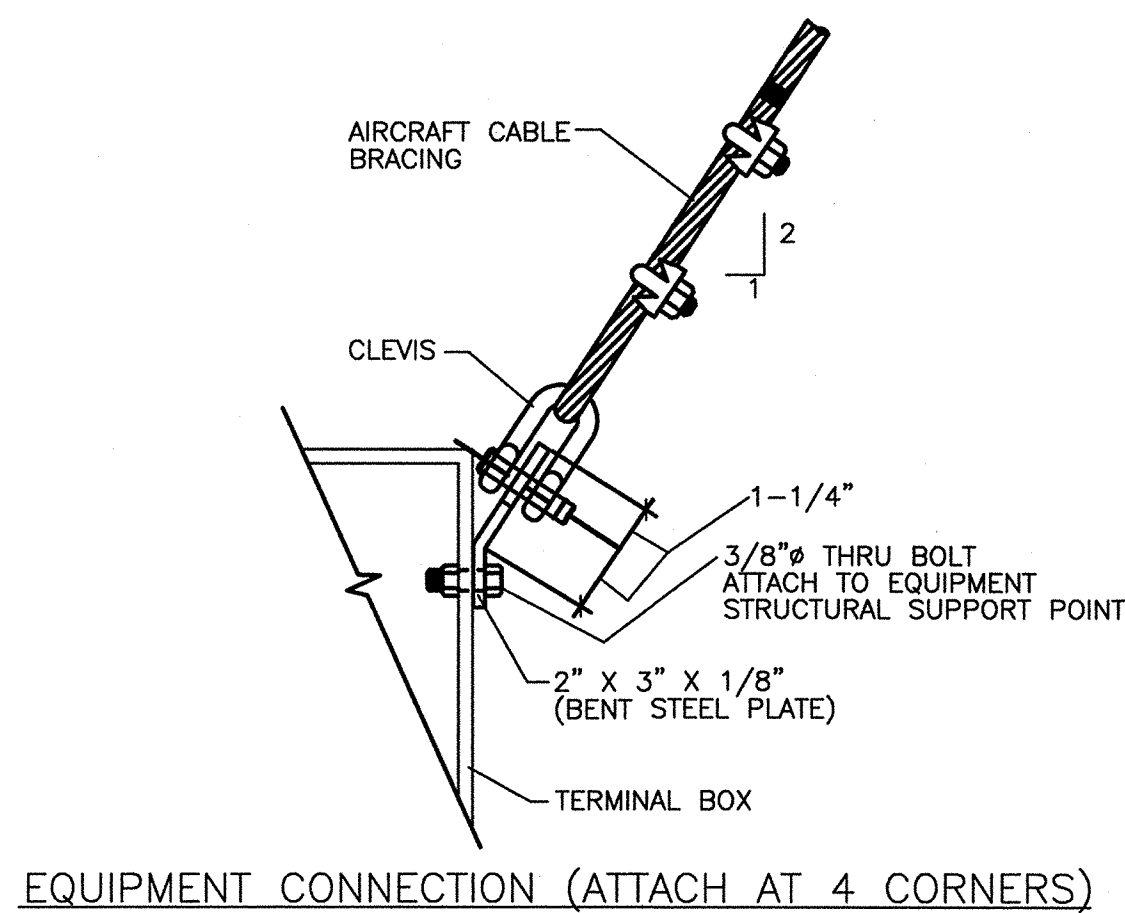
4 TURNING VANE DETAILS
M2.1 NOT TO SCALE



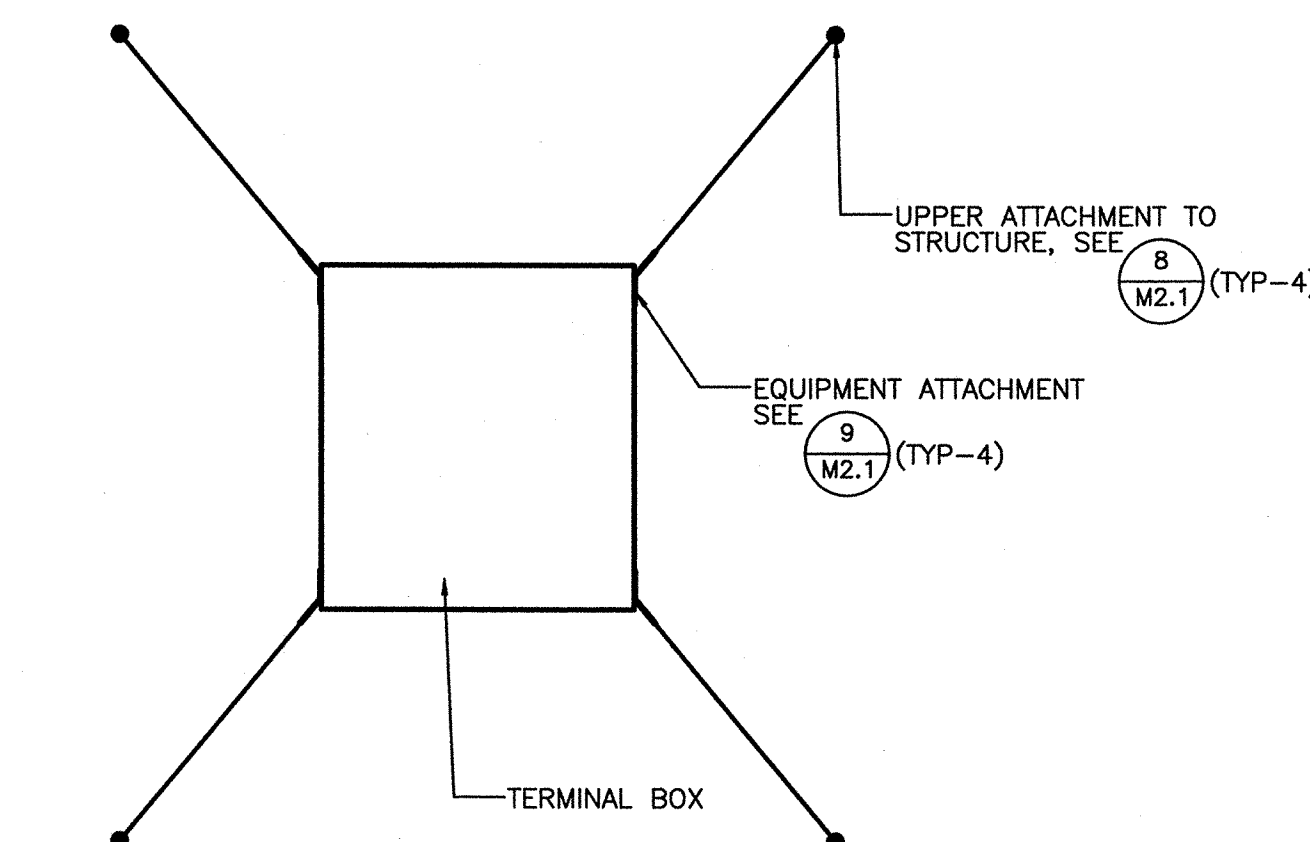
7 VAV BOX CONTROL DIAGRAM
M2.1 NOT TO SCALE



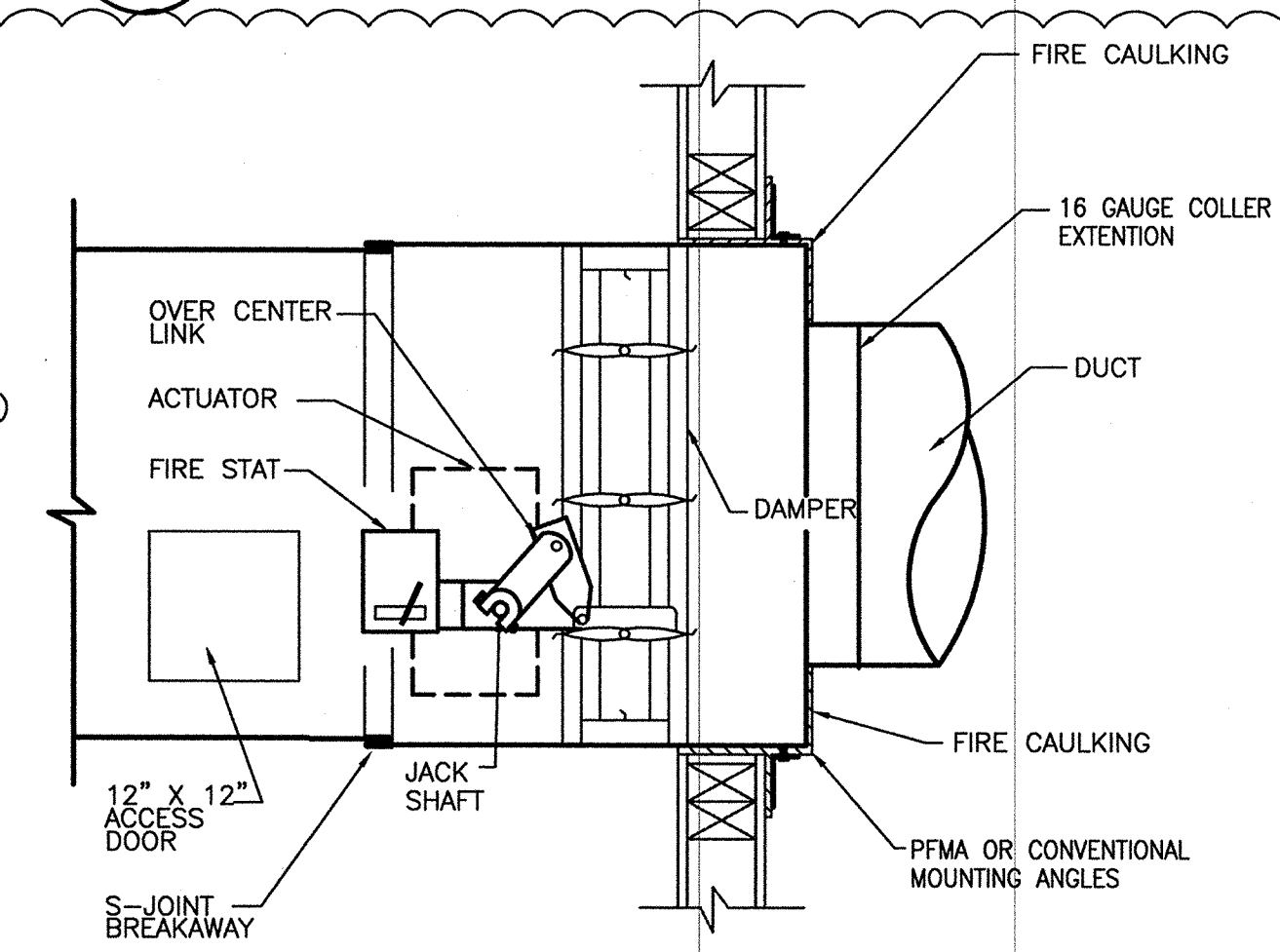
8 UPPER ATTACHMENT TO CONCRETE
M2.1 NOT TO SCALE



9 EQUIPMENT SEISMIC RESTRAINT DETAIL
M2.1 NOT TO SCALE



10 EQUIPMENT SEISMIC RESTRAINT DETAIL
M2.1 NOT TO SCALE

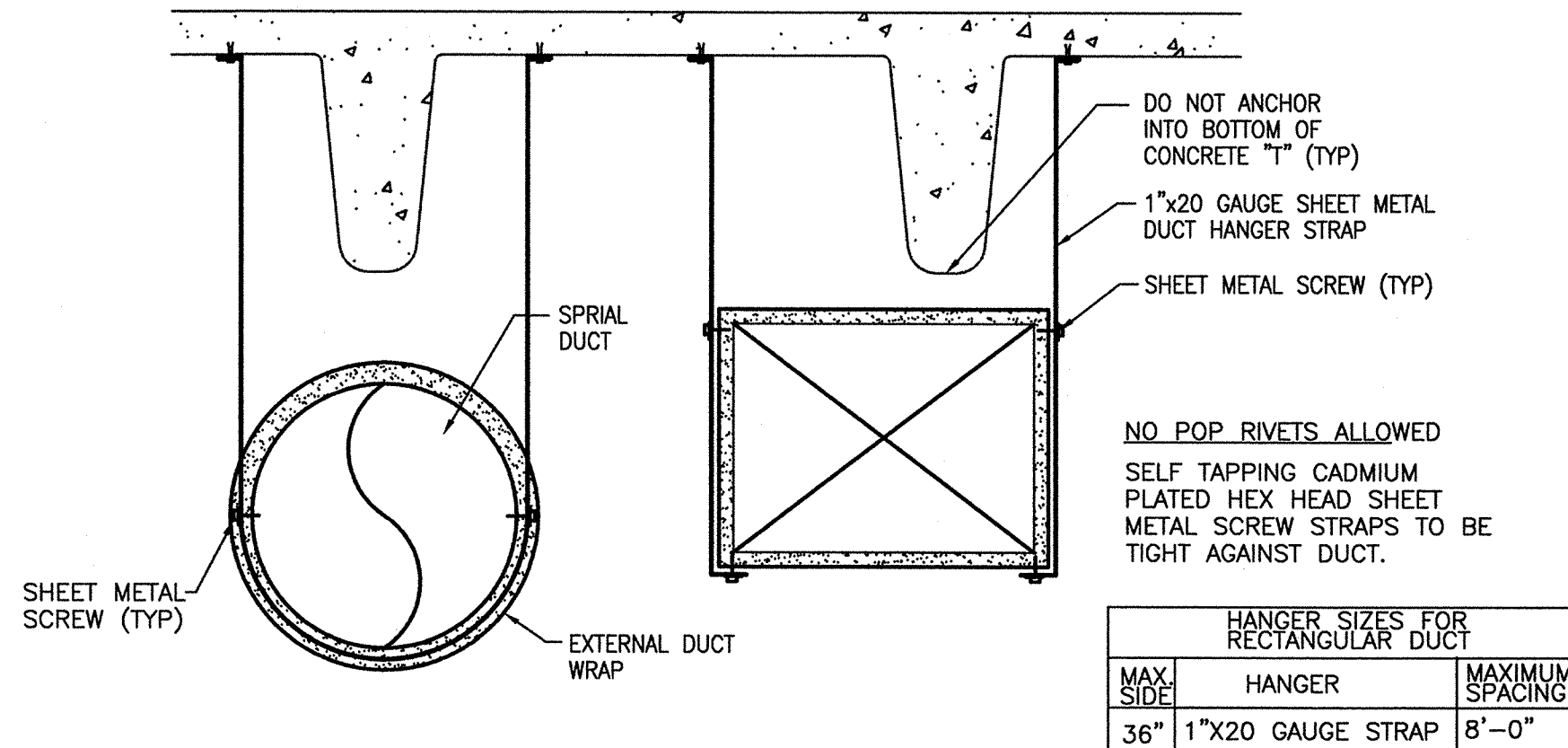


11 COMBINATION FIRE/SMOKE DAMPER DETAIL
M2.1 NOT TO SCALE

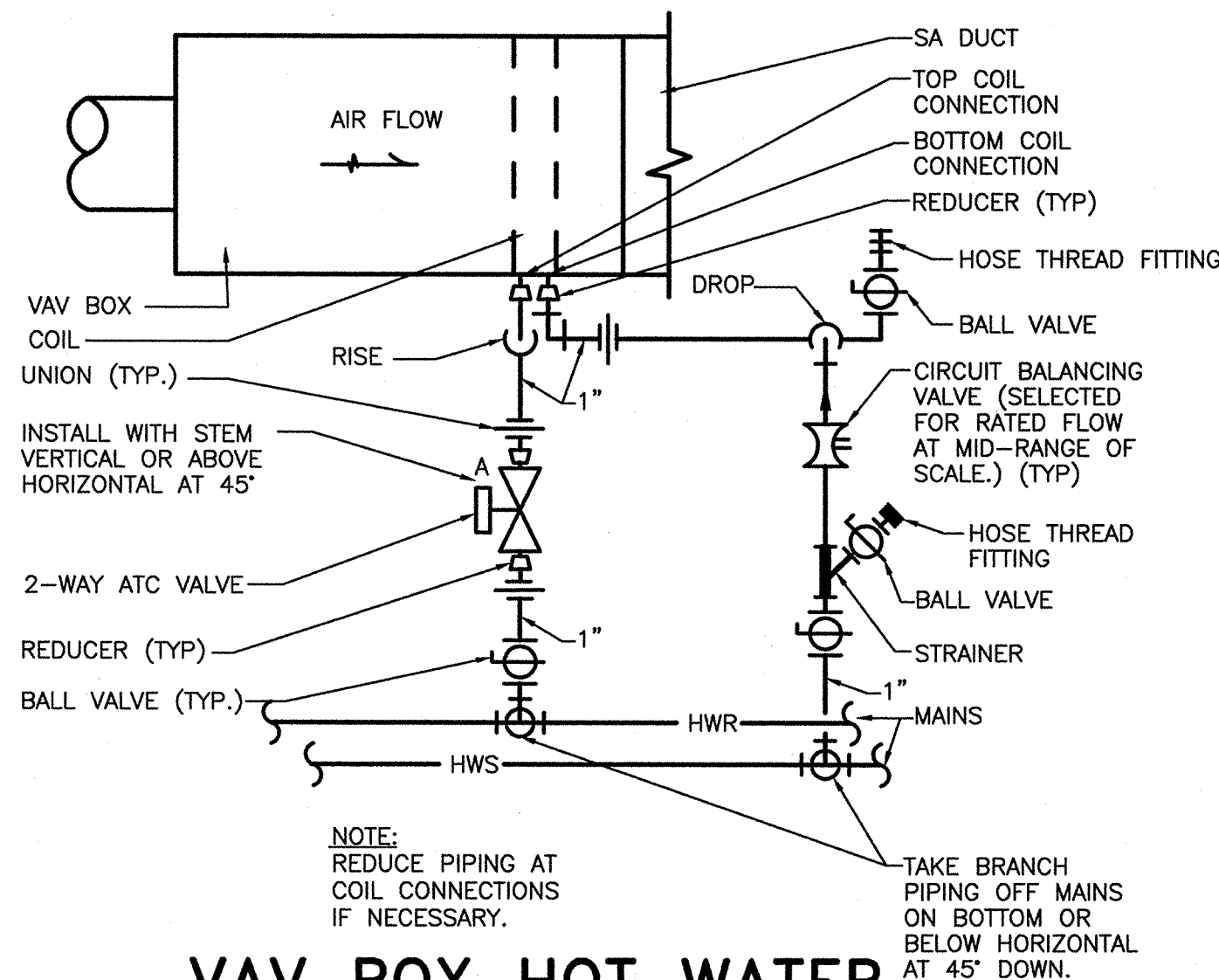
VAV WITH HEAT COIL SCHEDULE

MARK	MANUFACTURE	BOX SIZE	CFM	HEATING BTUH	S.P. DROP MAX.	COIL NUMBER OF ROWS	GPM	DUCT SIZE	HWS & HWR PIPE SUPPLY SIZE
VAV-1	PRICE SINGLE DUCT	16	3,000	105,000	.4" WITH 2 ROW COIL	2	6.6	16"Ø 24" X 18"	1"

1. PRESSURE INDEPENDANT.



2 DUCT STRAP HANGER DETAIL
M2.1 NOT TO SCALE

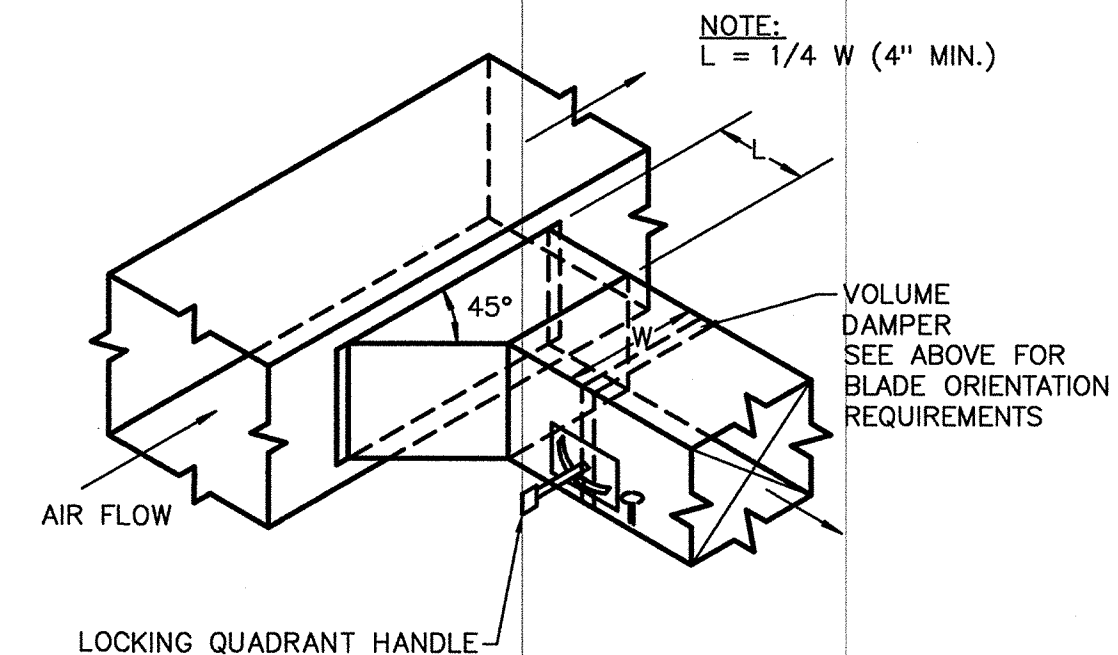


5 VAV BOX HOT WATER CONNECTION DETAIL
M2.1 NOT TO SCALE

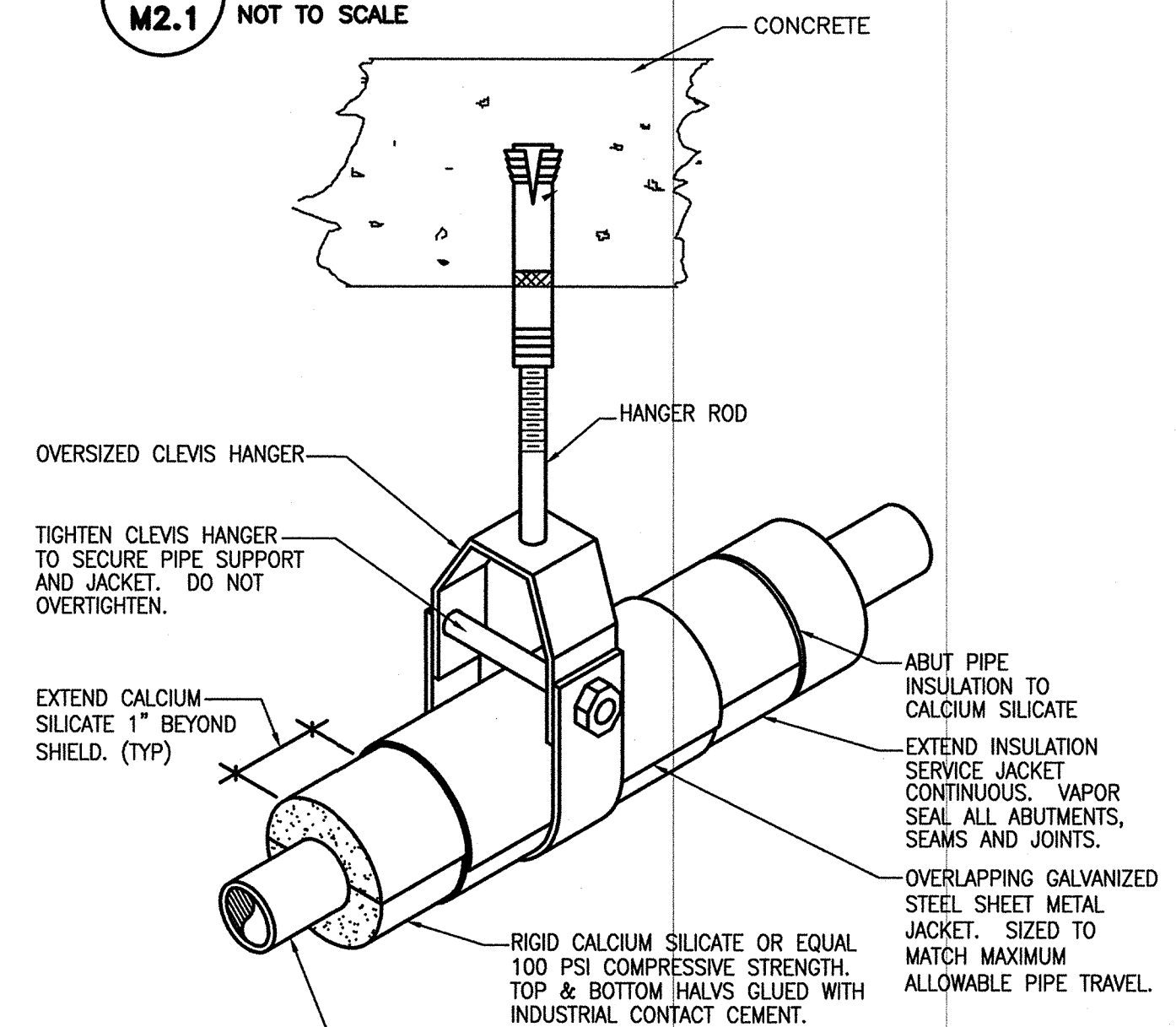
DIFFUSER, REGISTER, GRILLE, AND LOUVER SCHEDULE

MARK	TYPE	SERVICE	NECK SIZE	BLOW	PATTERN	MANUFACTURERS CATALOG NUMBER
D-1	CEILING	SUPPLY AIR	12" X 12"	4 WAY	▲	24 X 24 CEILING MODULE
D-2	CEILING	SUPPLY AIR	15" X 15"	4 WAY	▲	24 X 24 CEILING MODULE
R-1	CEILING	RETURN AIR	24" X 24"	NA	NA	NAILOR 4330R PERFORATED FACE 24 X 24 CEILING MODULE

① WALL GRILLES, REGISTERS AND LOUVERS DIMENSIONS LIST THE HORIZONTAL DIMENSION FIRST.



3 45° BRANCH TAKE OFF DETAIL
M2.1 NOT TO SCALE



6 PIPE SUPPORT DETAIL
M2.1 NOT TO SCALE

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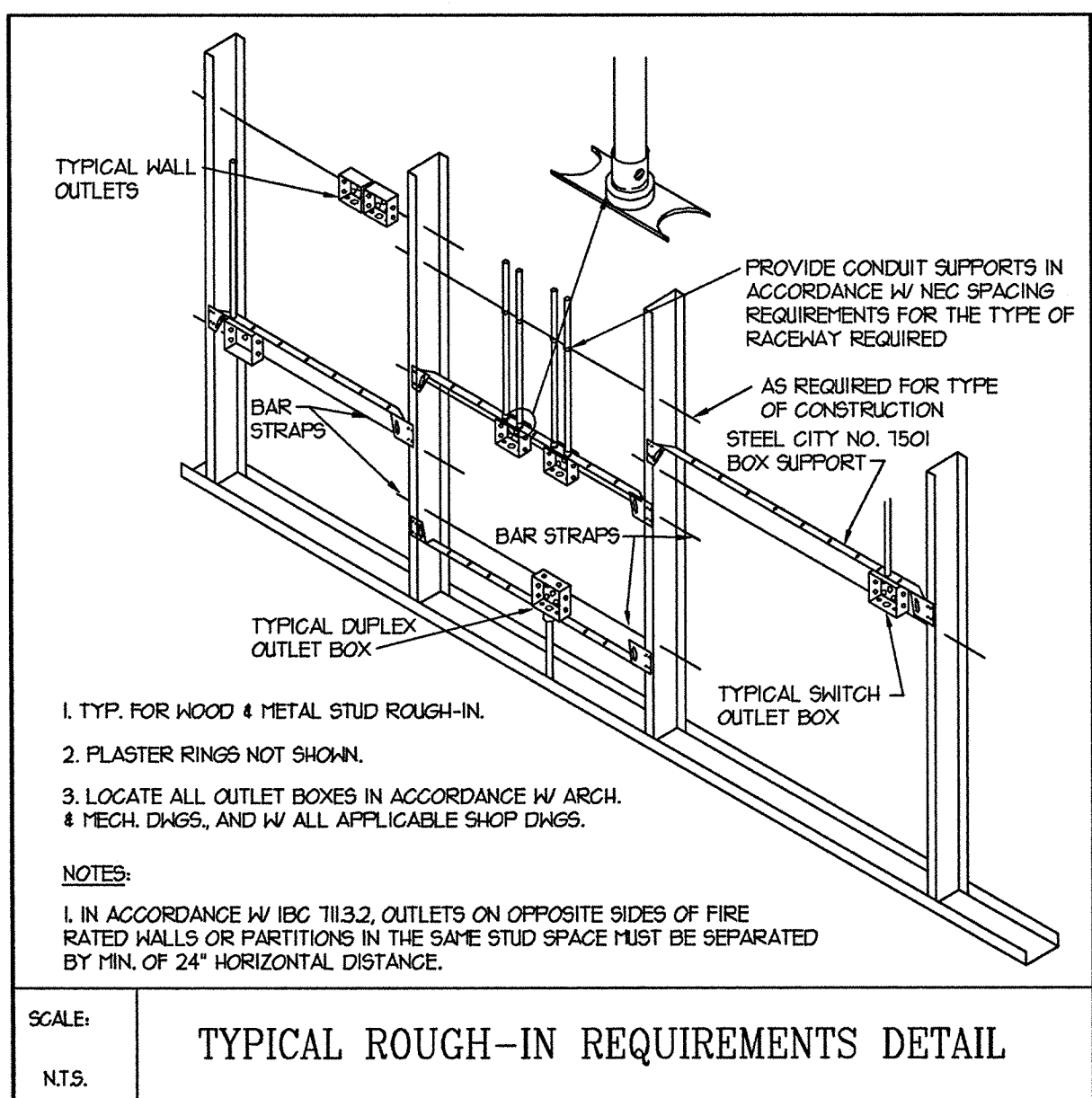
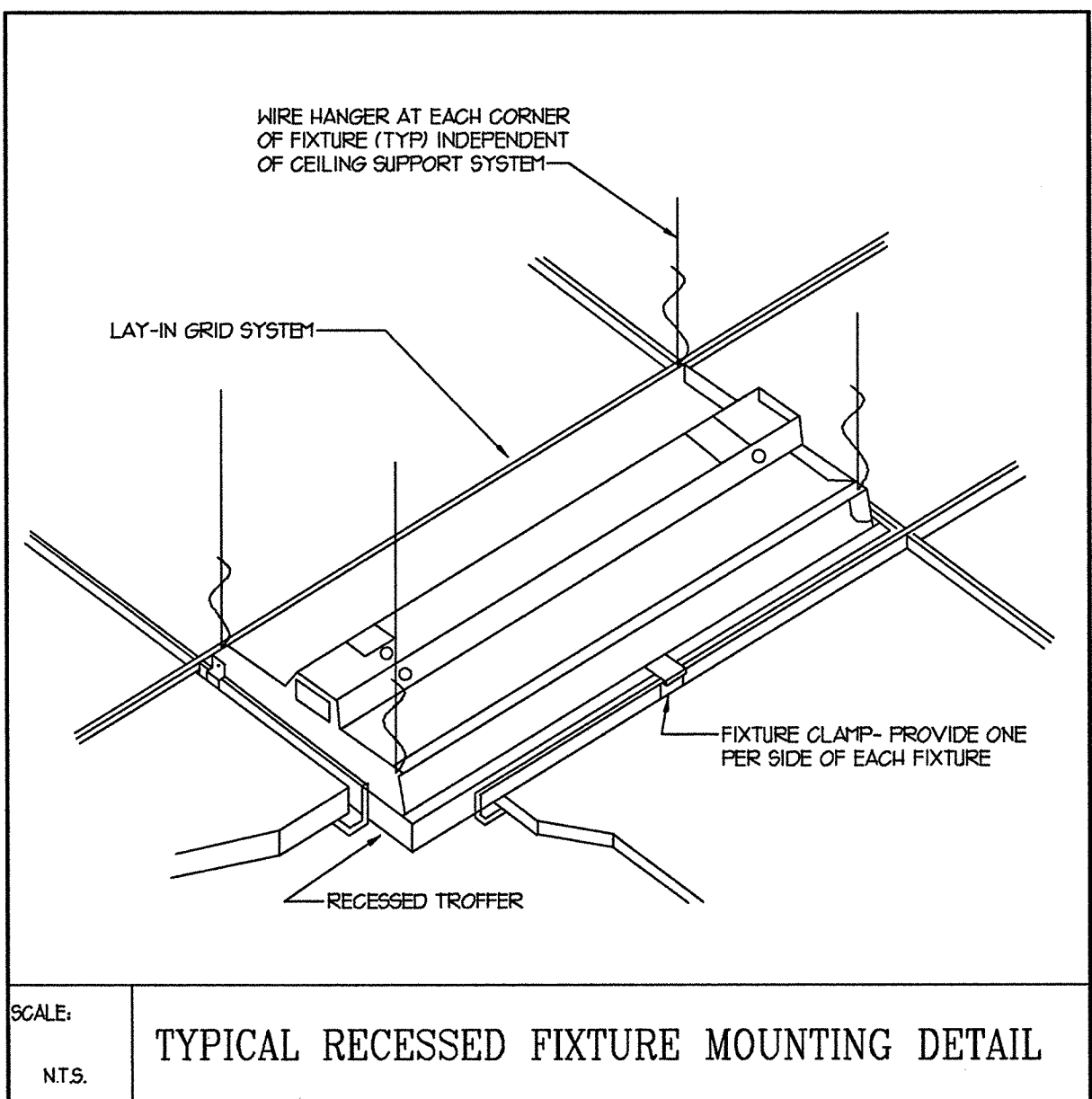
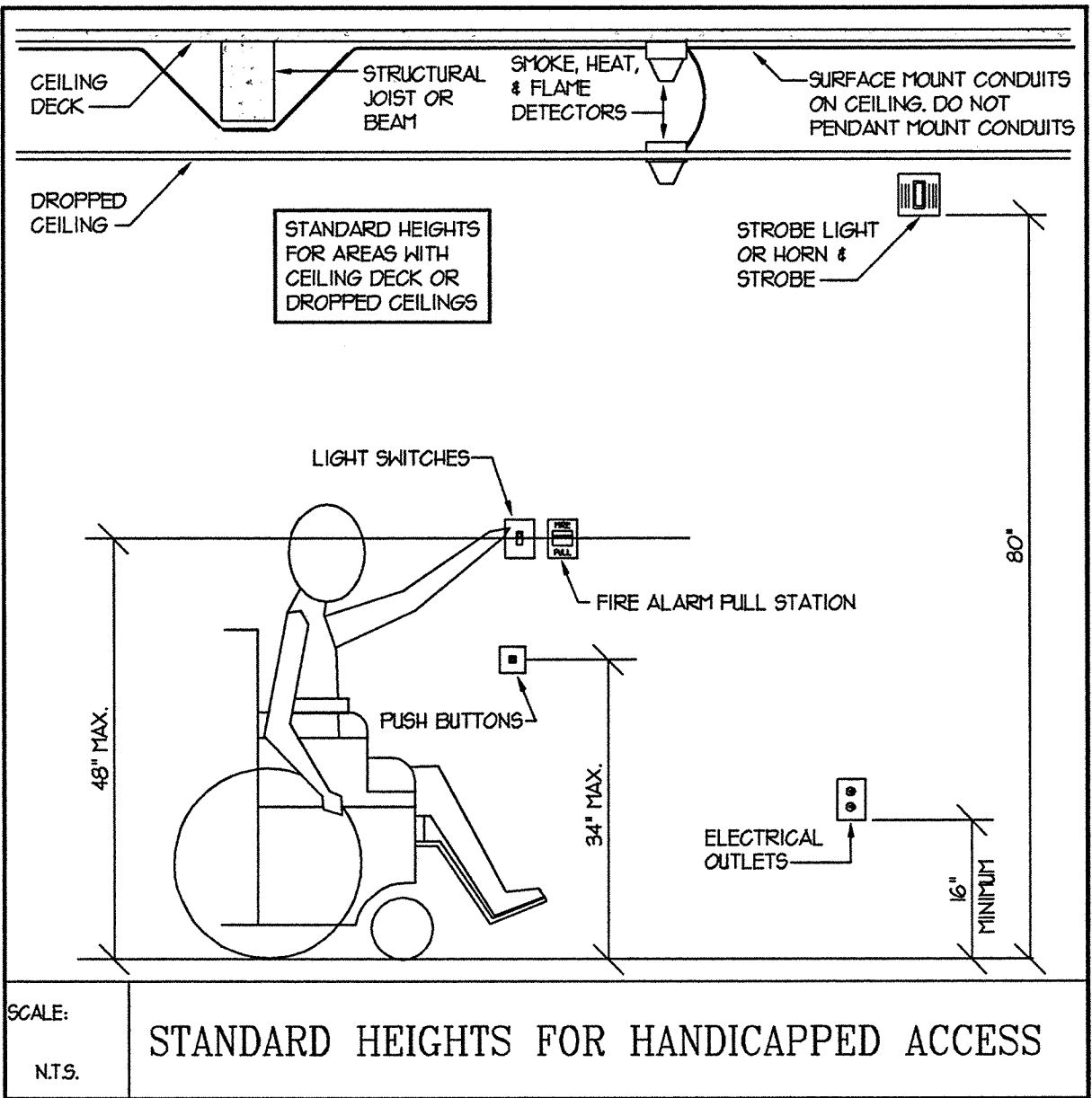
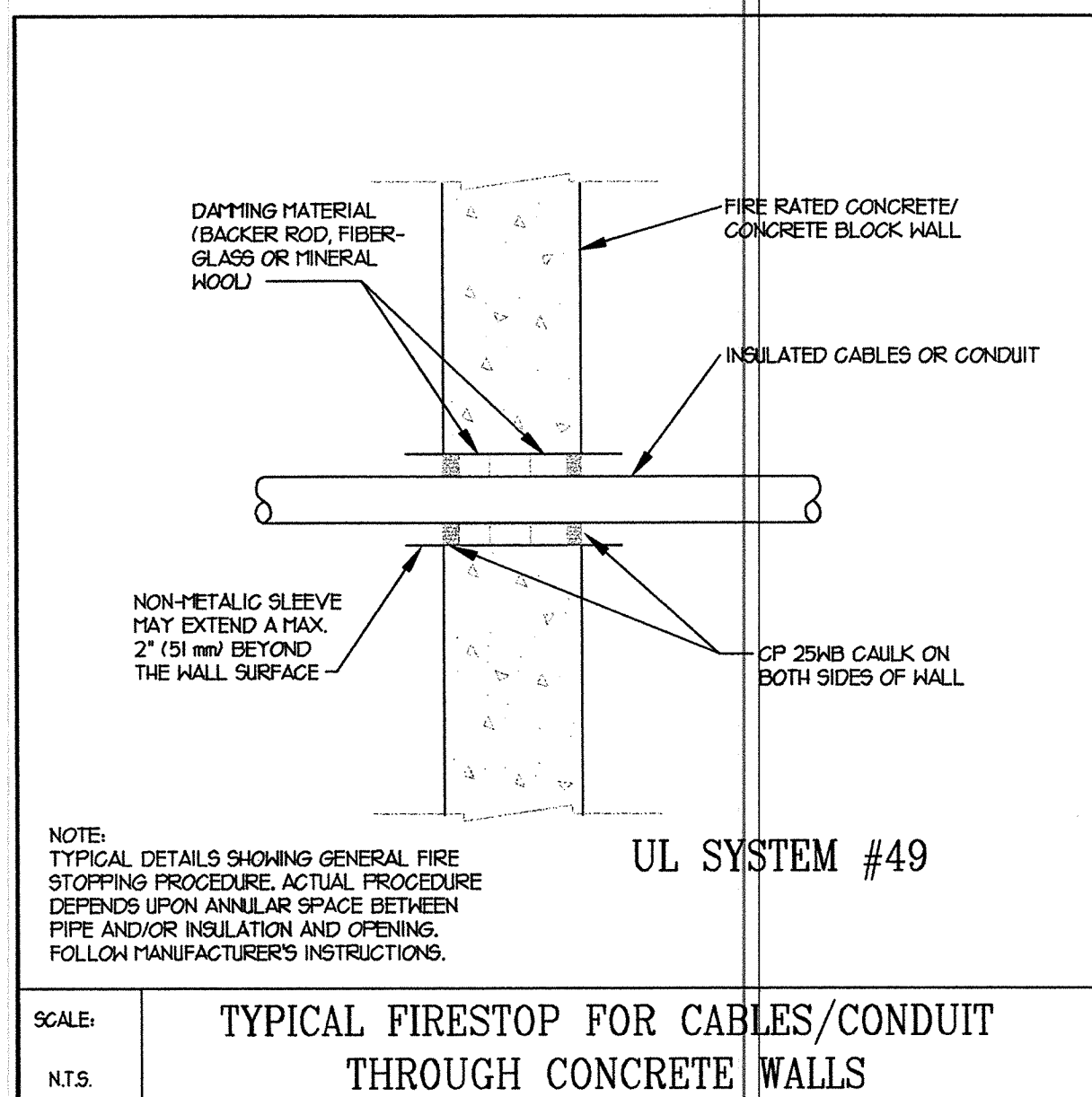
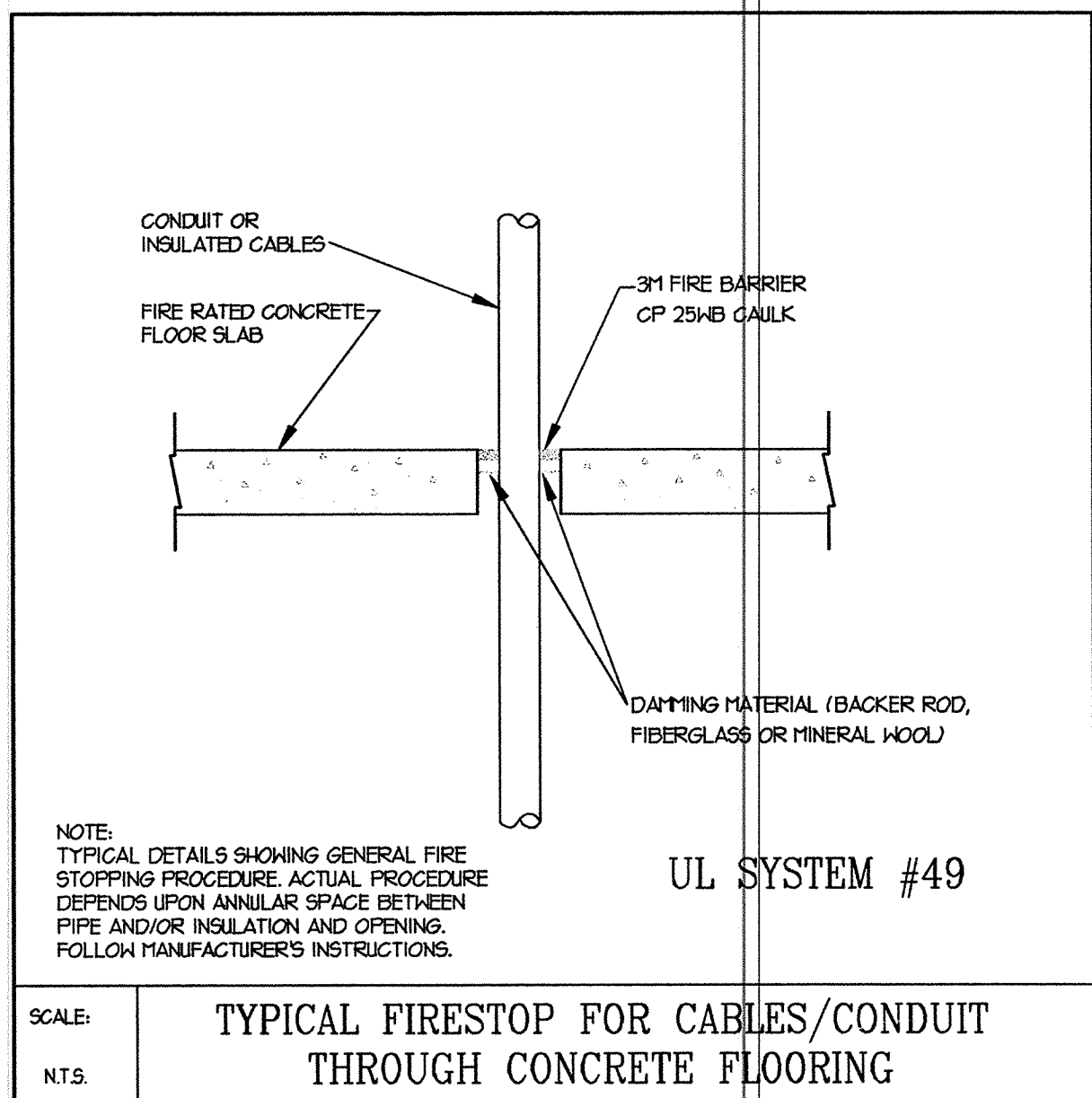
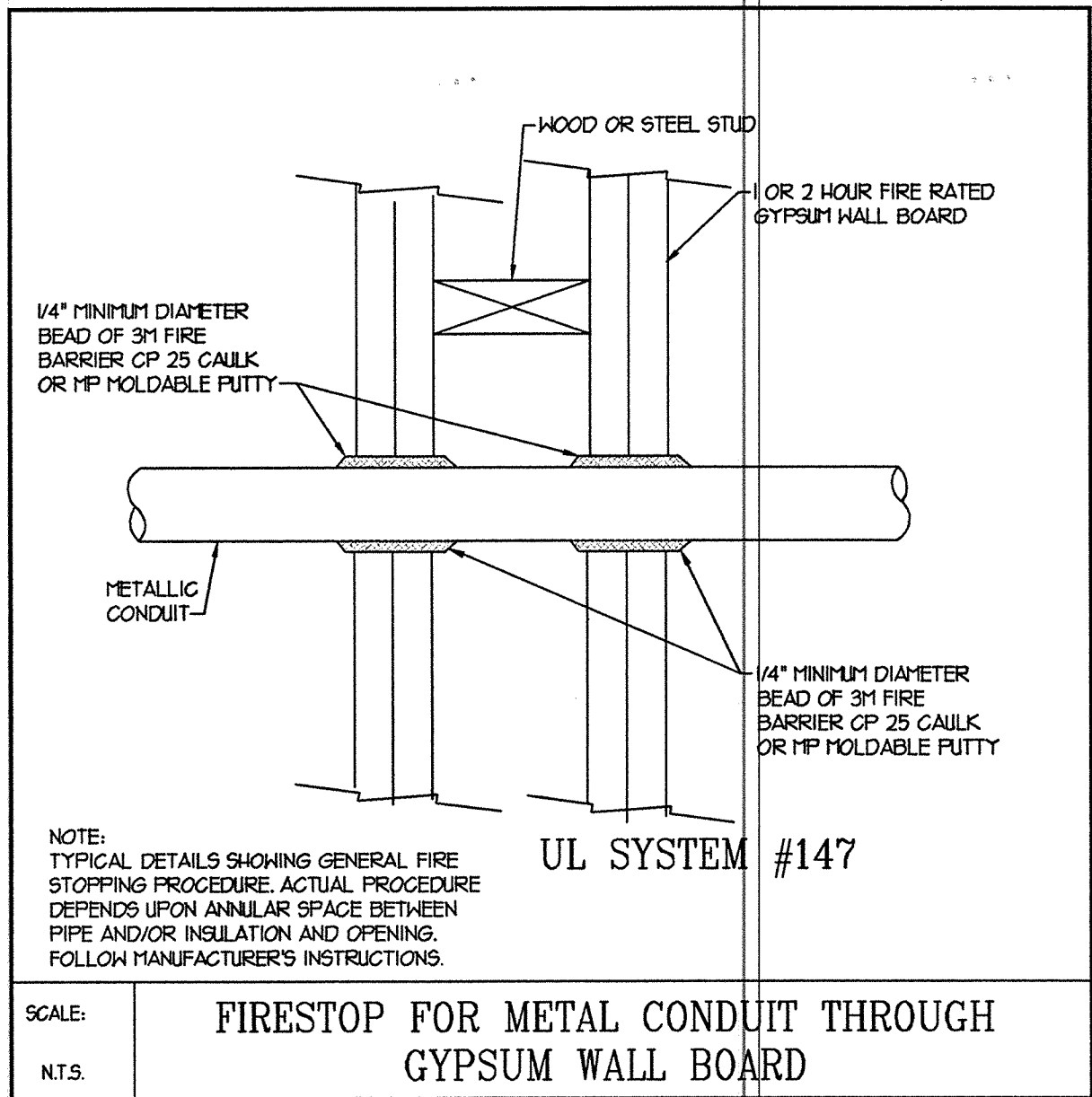
DFCM: TIM PARKINSON
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DRAWN BY:
CHECKED BY: cel/drs

MECHANICAL DETAILS

M201

SHEET 3 OF 3



LIGHTING SYSTEM SYMBOL LIST	
SYMBOL	DESCRIPTION
	RECESSED FLUORESCENT FIXTURE
	FIXTURES ON EMERGENCY POWER
	EXIT LIGHT. ARROWS SHOW EXIT DIRECTION
	SINGLE POLE TOGGLE SWITCH - 20 AMP, LETTERS INDICATE SWITCH ASSIGNMENT
	LIGHTING FIXTURE CALLOUT. NUMBER INDICATES A SUGGESTED QUANTITY - TO BE VERIFIED
	REFERENCE NOTE CALLOUT

POWER SYSTEMS SYMBOL LIST	
SYMBOL	DESCRIPTION
	DUPLEX CONVENIENCE OUTLET - 20 AMP
	DUPLEX CONVENIENCE OUTLET - 20 AMP GROUND FAULT INTERRUPTER
	FLUSH FLOOR POKE THROUGH OUTLET WITH DATA
	JUNCTION BOX - SIZE AND FUNCTION AS REQUIRED
	MOTOR LOCATION
	MANUAL DISCONNECT WITH THERMAL OVERLOAD PROTECTION
	ELECTRICAL PANEL LOCATION

COMMUNICATION SYSTEMS SYMBOL LIST	
SYMBOL	DESCRIPTION
	FLUSH DATA/TELEPHONE OUTLET
	SOUND SYSTEM SPEAKER, W-WALL MOUNTED
	CLOCK OUTLET

FIRE ALARM SYSTEM SYMBOL LIST	
SYMBOL	DESCRIPTION
	FIRE ALARM HORN WITH STROBE HIGH DECIBEL, 96" AFF.

ABBREVIATIONS SYMBOL LIST	
SYMBOL	DESCRIPTION
	INDICATES DEVICE IS SURFACE MOUNTED
	INDICATES CEILING MOUNTED DEVICE
	TRANSIENT VOLTAGE SURGE SUPPRESSOR

LIGHTING FIXTURE SCHEDULE				
SYMBOL	DESCRIPTION	LAMPS	APPROVED MANUFACTURERS	CATALOG NUMBER
(T-1)	2'x4' LAY-IN FLUORESCENT WITH DIMMING BALLAST.	(2) T-8 28 W	COLUMBIA	ZP124-2286-FCB9-EPH
			LIGHTOLIER	H452GLR228-UNV-HI
			LITHONIA	ZRT5 28T5 1M-VOLT GEBIOPS LHP84IP
			METALLUX	2AC-228T5-UNV-EBT1
(T-2)	6" RECESSED MOUNTED INCANDESCENT LIGHT FIXTURE WITH SELF TRIM REFLECTOR.	T5H PAR 30	DAY-BRITE	2ATNS228-D-UNV-V2-EB95-LPT84I
			PRESGOLITE	79X-ST832
			LIGHTOLIER	CP30DCPM W/ C6120
			LITHONIA	APR PAR 30 6AR
(EX-1)	LED EDGE LITE RECESSED HARDWARE EXIT SIGN WITH GREEN LETTERS AND NICAD BATTERY PACK UNIT.	INCLUDED	PORTFOLIO	HD6-630-HI
			LSI	206VIT75HWC21206VCL
			DUAL-LITE	LE*SG*E
			LIGHTOLIER	LEEC16W
			ISOLITE	ELT-BY-6-1C-BA-XX-XX
			LITHONIA	LPR W 1.6W LRA 120/27T-EL-N
			EXTRONIX	923-NBCGXBA

- NOTES:
1. ALL FLUORESCENT LIGHTS SHALL HAVE ELECTRONIC INSTANT START BALLASTS, 10% TOTAL HARMONIC DISTORTION AND .75 OR LESS BALLAST FACTOR. UNIVERSAL, ADVANCE AND HOWARD ARE APPROVED MANUFACTURERS. BALLASTS TO HAVE 5 YEAR WARRANTY.
 2. ALL FLUORESCENT LAMPS SHALL HAVE 4100° COLOR TEMPERATURE.
 3. THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKES PRECEDENCE OVER THE CATALOG NUMBER.
 4. PROVIDE PREMIUM T-8 LAMPS AND BALLASTS.

- GENERAL NOTES:
1. IN THE EXISTING SPACES TO BE RENOVATED, THE CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES, SWITCHES, WIRING, CONDUIT, WIRING DEVICES, SPEAKERS, VOLUME CONTROLS, ETC. AS REQUIRED WHETHER OR NOT SHOWN ON THE DRAWINGS.
 2. ALL MATERIALS TO BE REMOVED AND RETURNED TO THE OWNER. MATERIALS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED FROM THE SITE BY THE CONTRACTOR.
 3. ALL CONCEALED CONDUIT THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISH SURFACES AND CAPPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AT THE PANEL AND REMOVED FROM THE CONDUIT.
 4. IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED BECAUSE OF THE NATURE OF THE FACILITY, MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUIT INTEGRITY AS QUICKLY AS POSSIBLE.
 5. THE CONTRACTOR SHALL PATCH THE WALLS AND CEILINGS WHERE THE DEVICES ARE REMOVED TO MATCH THE EXISTING WALLS AND CEILINGS. COORDINATE WITH THE GENERAL CONTRACTOR.
 6. THE COLOR OF ALL THE NEW DEVICES AND COVERPLATES SHALL MATCH THE COLOR OF THE EXISTING DEVICES AND COVERPLATES.
 7. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
 8. ALL NEW CONDUITS AND J-BOXES SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS. CUT AND PATCH WALLS AS REQUIRED. COORDINATE THIS WORK WITH GENERAL CONTRACTOR.
 9. MINIMUM SIZE OF CONDUIT TO BE 3/4". ALUMINUM CONDUITS SHALL NOT BE USED.
 10. USE RIGID STEEL SET SCREW TYPE FITTINGS ONLY. DIE CAST FITTINGS SHALL NOT BE USED.
 11. SUPPORT THE LAY-IN TYPE FIXTURES FROM THE CEILING DECK INDEPENDENT OF THE CEILING GRID, AS SHOWN ON THE TYPICAL RECESSED FIXTURE MOUNTING DETAIL.
 12. ALL NEW WORK MUST MEET THE CURRENT ADOPTED NATIONAL ELECTRICAL CODE.
 13. NOT MORE THAN THREE (3) CIRCUITS, SHALL BE INSTALLED IN A CONDUIT. EACH CIRCUIT SHALL CONSIST OF 1 CONDUCTOR FOR EACH PHASE, 1 NEUTRAL, AND 1 GROUND, FOR A TOTAL OF FIVE CONDUCTORS.
 14. THE MINIMUM SIZE OF THE CONDUCTORS ARE TO BE #12 AWG THHN COPPER, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
 15. ALL J-BOXES SHALL HAVE MINIMUM DEPTH OF 2-1/8" UNLESS OTHERWISE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER MUD RINGS.
 16. ALL NEW EXPOSED CONDUIT MUST RUN AGAINST THE WALLS OR CEILINGS. DO NOT PENDANT MOUNT ANY CONDUIT FROM THE CEILINGS.
 17. ALL THE HOMERUNS MUST BE ACCESSIBLE IN THE CEILING PLENUM. DO NOT CARRY A HOMERUN FROM ONE DEVICE TO ANOTHER WHICH IS TIED TO A SEPARATE HOMERUN INSIDE THE WALL. MARK ON ALL THE J-BOXES THE CIRCUIT NAMES AND NUMBERS. USE NO. 10 THIN CONDUCTORS FOR CONDUCTOR LENGTH OVER 100 FEET, NO. 8 THIN OVER 200 FEET, NO. 6 THIN OVER 300 FEET AND NO. 4 THIN OVER 400 FEET LENGTH.
 18. PAINT ALL THE J-BOXES FOR FIRE ALARM SYSTEM WITH RED PAINT. USE RED CONDUIT FOR FIRE ALARM SYSTEM.
 19. COORDINATE WITH THE OWNER AND ARCHITECT FOR THE EXACT LOCATION OF THE OUTLETS.
 20. LIGHT SWITCHES INSTALLED ADJACENT TO EACH OTHER, SHALL BE GANGED TOGETHER WITH ONE PIECE COVERPLATE.
 21. AT THE END OF THE JOB, PROVIDE BLANK COVER PLATES TO MATCH THE OTHER COVER PLATES FOR ALL J-BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.
 22. SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS WITH FIRE RATED MATERIAL. 3M IS AN APPROVED MANUFACTURER.
 23. ALL MATERIALS USED IN THIS INSTALLATION SHALL BE UL, APPROVED AND NEW.
 24. ALL ELECTRICAL WIRING MUST BE IN CONDUIT (RPMEX AND MC CABLE NOT PERMITTED).
 25. FLEXIBLE CONDUITS CAN ONLY BE USED FOR SHORT RUNS (6' MAXIMUM).
 26. NO CONDUITS SHALL RUN IN DUCT WORK.
 27. PRIOR TO SUBMITTING A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS. SHOP DRAWINGS ARE REQUIRED. ALL LABOR, MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE BY THE TENANT. REPLACE OR REPAIR ALL DEFECTS DURING THE GUARANTEED PERIOD.
 28. ALL DUPLEX OUTLETS AND SWITCHES SHALL BE 20 AMP, 120 VOLT SPEC GRADE. HUBBELL AND PASS 4 SEYMOUR AND LEVITON ARE APPROVED MANUFACTURERS.
 29. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES FOUND BETWEEN THE INTENDED FUNCTION OF EQUIPMENT AND EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL BID. FAILURE TO REPORT ANY DISCREPANCY (CATALOG NUMBERS, DISCONTINUED ITEMS, ETC) DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING EQUIPMENT WHICH SHALL CONFORM TO AND FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. NOR SHALL IT BE USED AS A CONDITION TO OBTAIN ADDITIONAL FUNDS FROM THE OWNER AFTER THE CONTRACT IS AWARDED. THE CONTRACTOR SHALL REQUEST ALL CLARIFICATIONS OF CONTRACT DOCUMENT REQUIREMENTS IN WRITING TO THE ARCHITECT/ENGINEER A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM.
 30. PROVIDE TYPED LABEL FOR ALL DUPLEX OUTLETS AND LIGHT SWITCHES TO INDICATE WHICH CIRCUIT THEY ARE TIED TO.
 31. INSTALL EXIT SIGNS ON THE WALL IF POSSIBLE.
 32. CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.

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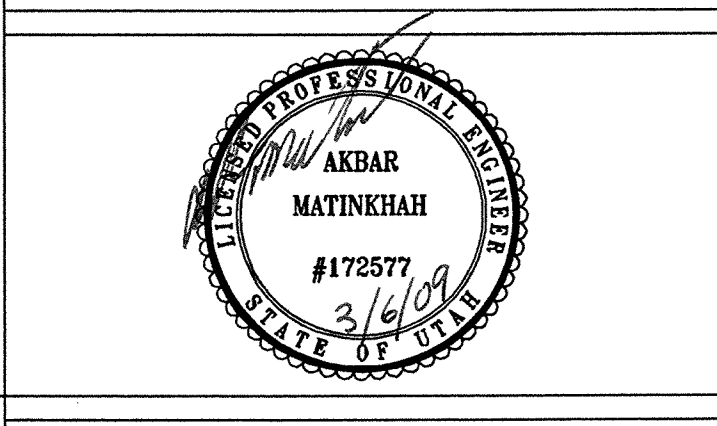
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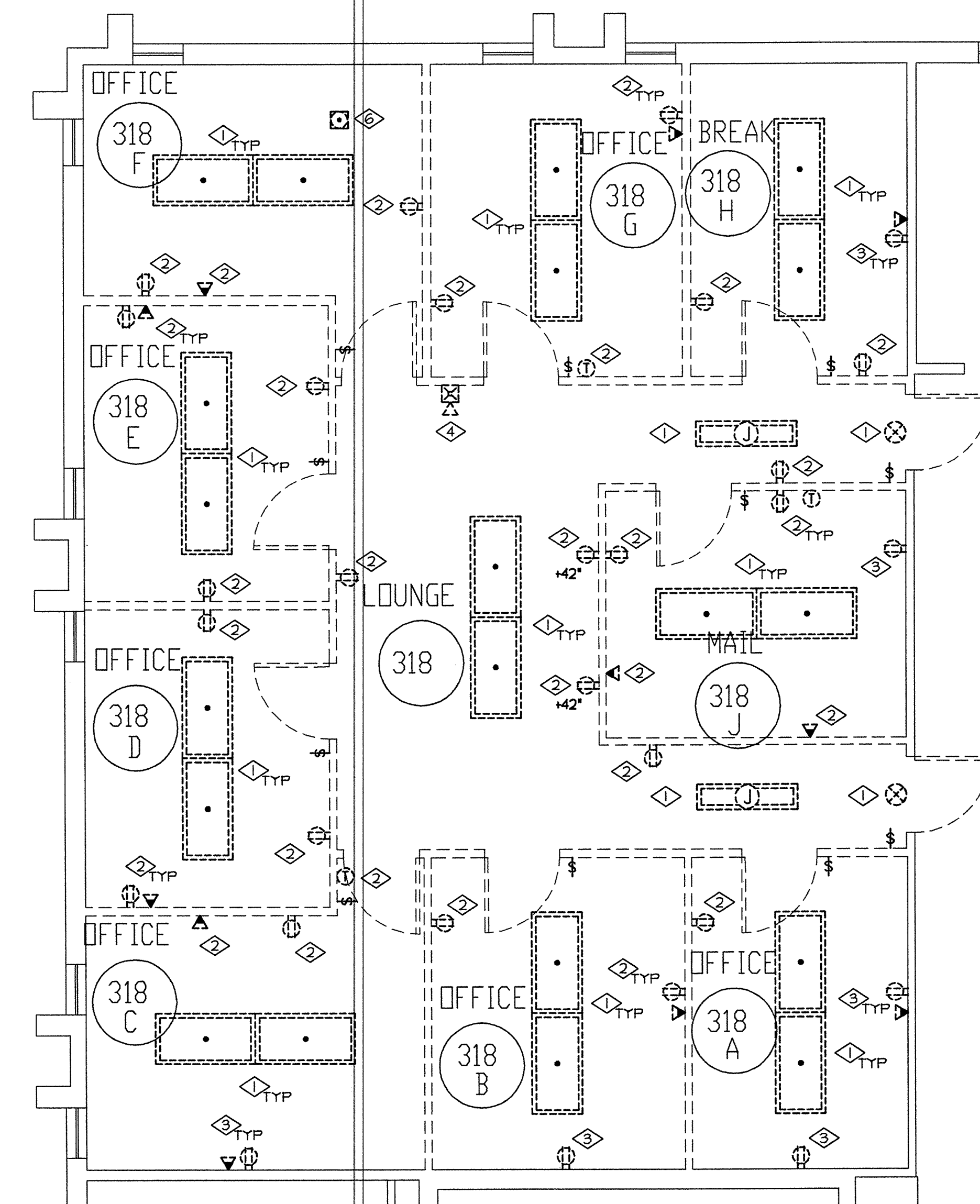
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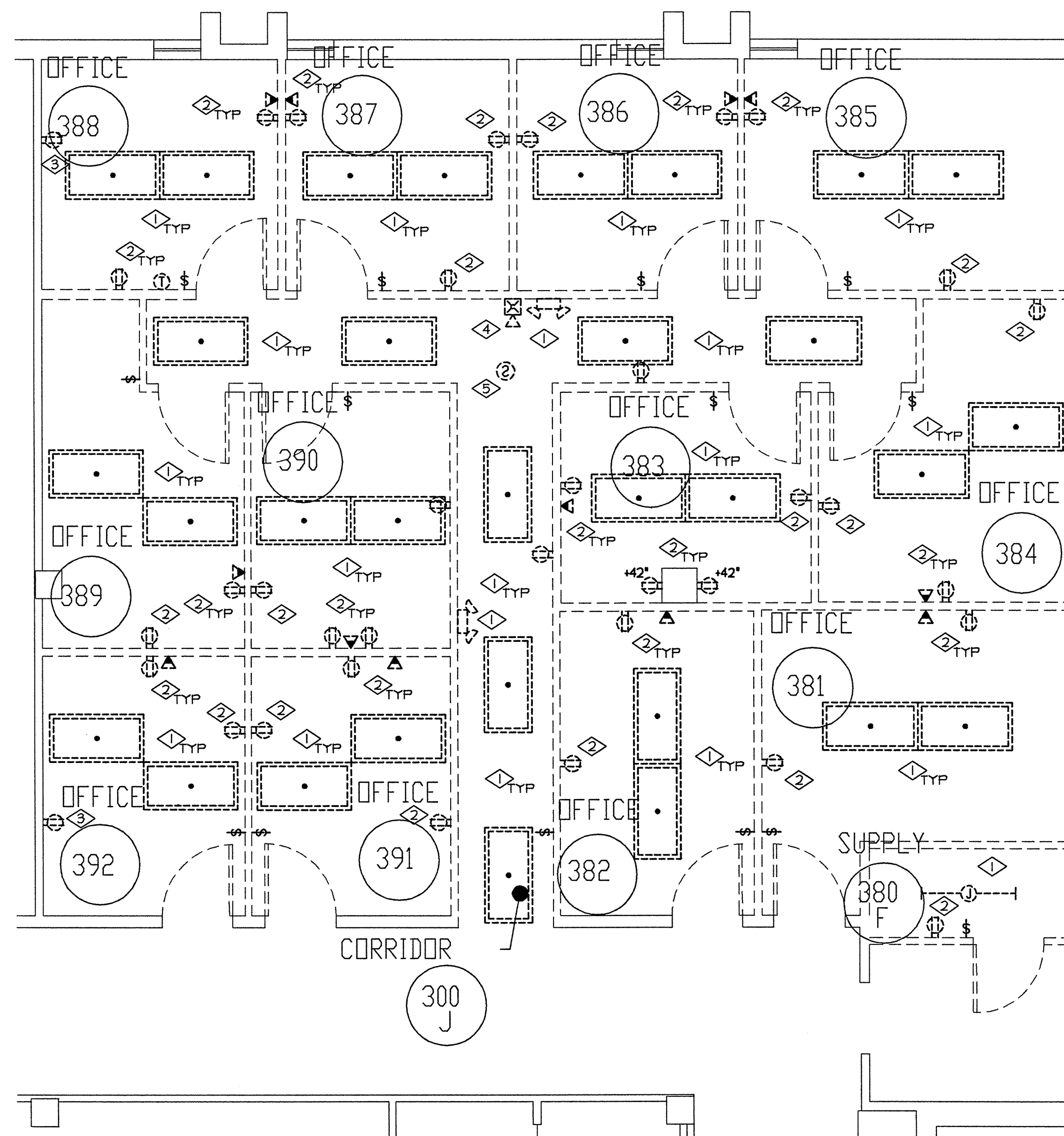
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PROJECT NO: ECE 3552
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SCHEDULES, DETAILS
AND NOTES

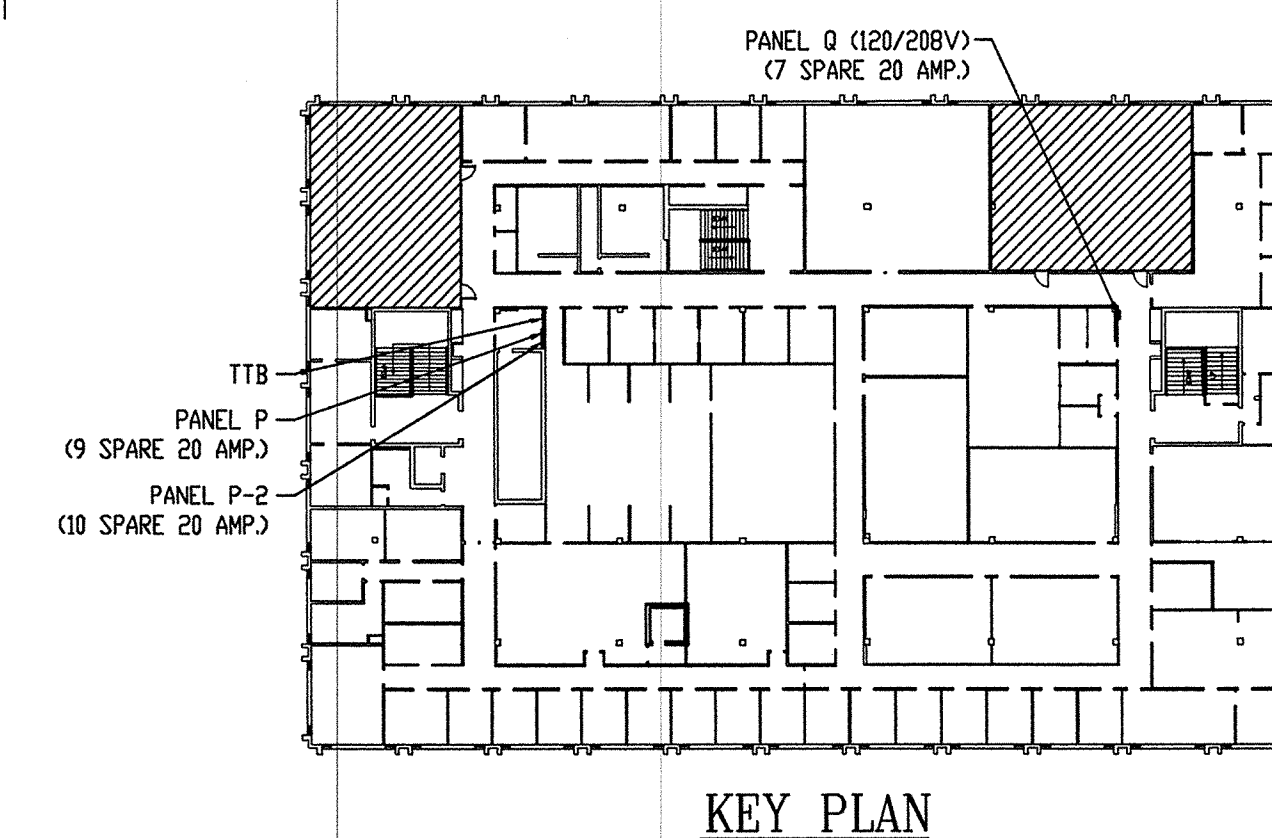
E-001



PARTIAL DEMOLITION FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



PARTIAL DEMOLITION FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



KEY PLAN

REFERENCE NOTES:

1. EXISTING LIGHT FIXTURES ARE TO BE REMOVED. REMOVE CONDUIT, CONDUCTORS, ETC. ALL THE WAY BACK TO POINT OF ORIGIN. REUSE EXISTING CIRCUIT AND CONDUITS AS POSSIBLE FOR NEW LIGHT FIXTURES. REMOVE ANY UNUSED CONDUCTORS, CONDUIT AND J-BOXES BACK TO ORIGIN POINTS.
2. EXISTING ELECTRICAL DEVICES ARE TO BE REMOVED FROM THE WALLS WHICH ARE BEING DEMOLISHED WHETHER OR NOT SHOWN ON THE DRAWING. REMOVE CONDUIT, CONDUCTORS, ETC. ALL THE WAY BACK TO POINT OF ORIGIN. REUSE CONDUITS AS POSSIBLE FOR NEW DEVICES. PATCH EXISTING WALLS AND FLOORS AS REQUIRED TO MATCH ADJACENT SURFACES. COORDINATE THIS WORK WITH GENERAL CONTRACTOR. ALL VOICE AND DATA LINES ARE TO BE REMOVED BY HSI PERSONNEL SO AS TO AVOID SHORTING OR DAMAGING CAMPUS NETWORK EQUIPMENT.
3. EXISTING ELECTRICAL DEVICES ARE TO REMAIN. REPLACE EXISTING DUPLEX OUTLETS, DATA OUTLETS AND COVERPLATES WITH NEW. TIE TO EXISTING CIRCUITS. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
4. REMOVE THE EXISTING FIRE ALARM DEVICES SHOWN. CLEAN AND RECALIBRATE DEVICES BEFORE REINSTALLATION. REINSTALL FIRE ALARM DEVICES IN THE APPROXIMATE LOCATIONS SHOWN ON SHEET E-101. EXTEND EXISTING CONDUIT TO NEW LOCATIONS. PROVIDE ADDITIONAL CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION. FIRE ALARM SYSTEM IS TO BE RECERTIFIED AFTER PROJECT COMPLETION.
5. EXISTING FIRE ALARM DEVICE IS TO BE REMOVED. REMOVE CONDUIT, CONDUCTORS, ETC. ALL THE WAY BACK TO POINT OF ORIGIN. RETURN THE DEVICES TO HSI ELECTRICAL SHOP.
6. REMOVE FLOOR OUTLET AND CONDUCTORS ALL THE WAY BACK TO ORIGIN POINT. FURNISH AND INSTALL A BLANK PLATE TO COVER HOLE. PLATE TO BE FLUSH WITH FINISHED FLOOR.

GENERAL DEMOLITION NOTES:

1. UNDER DEMOLITION THE INTENT OF ELECTRICAL WORK IS TO REMOVE ALL ELECTRICAL DEVICES, LIGHT FIXTURES, CONDUIT, CONDUCTORS, J-BOXES, FIRE ALARM DEVICES, VOICE/DATA CABLING, VOICE/DATA OUTLETS, ETC. UNLESS INDICATED OTHERWISE. CONDUITS AND J-BOXES IN CONCRETE, MASONRY, AND BLOCK WALLS CAN BE LEFT IN THE WALLS AND REUSED FOR NEW DEVICES AS POSSIBLE. ALL ELECTRICAL DEVICES INCLUDING LIGHT FIXTURES, OUTLETS, ETC., WILL BE NEW. PROJECT AREA SHALL BE STRIPPED OF ALL MATERIALS.
2. ALL MATERIAL MUST BE REMOVED AND DISPOSED OF BY DEMOLITION CONTRACTOR, UNLESS INDICATED OTHERWISE ON DEMOLITION PLANS.
3. EXISTING DEMOLITION MATERIALS CAN NOT BE REUSED UNLESS INDICATED OTHERWISE.
4. ELECTRICAL CONTRACTOR IS TO PROVIDE TEMPORARY LIGHTING AND POWER FOR OTHER TRADES DURING DEMOLITION WORK. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR.
5. DEMOLITION CONTRACTOR IS TO REMOVE ALL ELECTRICAL CONNECTIONS AND CONTROL WIRING TO ALL THE EXISTING MECHANICAL EQUIPMENT IN THE REMODEL AREA, ETC. AS INDICATED. REMOVE ALL CONDUIT AND CONDUCTORS ALL THE WAY BACK TO PANELBOARDS. COORDINATE THIS WORK WITH MECHANICAL CONTRACTOR.
7. PRIOR TO SUBMITTING A BID THE DEMOLITION CONTRACTOR SHALL INSPECT THE SITE AND INCLUDED IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS.
8. ANY DAMAGE DONE TO EXISTING EQUIPMENT WHICH IS TO REMAIN WILL BE DEMOLITION CONTRACTOR RESPONSIBILITY TO REPLACE THEM WITH NEW ONES.



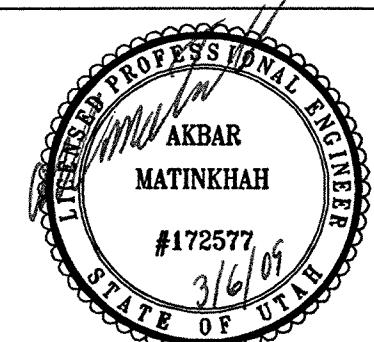
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OGDEN UT 84408

**SOCIAL SCIENCE BUILDING
3RD FLOOR REMODEL**

WSU: JIM HARRIS
CAMPUS DEVELOPMENT
2601 UNIVERSITY CIRCLE
OGDEN, UT 84408-2601

DFCM: TIM PARKINSON
DFCM PROJECT #08319810

DATE: MARCH 06, 2009
PROJECT NO: ECE 3552
CAD DWG FILE:
DRAWN BY: PB
CHECKED BY: AM

DEMOLITION FLOOR
PLAN - ELECTRICAL

ED-101

REFERENCE NOTES:

1. EXISTING ELECTRICAL DEVICES ARE TO REMAIN. REPLACE EXISTING DUPLEX OUTLETS, DATA OUTLETS AND COVERPLATES WITH NEW.
2. FURNISH AND INSTALL A 4"x4"x2-1/8" J-BOX WITH SINGLE GANG MUD RING ON THE WALL APPROXIMATELY 1'-0" FROM THE CEILING FOR SPEAKERS. RUN 1" CONDUIT FROM J-BOX TO CEILING PLENUM. INSERT PULL STRING AND LABEL.
3. TIE OUTLETS TO EXISTING 20 AMP, 1-POLE CIRCUIT IN THE ROOM. UTILIZE EXISTING CONDUIT AS POSSIBLE. PROVIDE ADDITIONAL CONDUIT AND CONDUCTORS AS REQUIRED.
4. TIE THE NEW MOTORIZED SCREEN TO EXISTING UNSWITCHED CIRCUITS IN THE ROOM THROUGH A SCREEN CONTROL SWITCH. COORDINATE WITH SCREEN SUPPLIER FOR REQUIRED WIRING BETWEEN CONTROL SWITCH AND SCREEN MOTOR. CONTROL SWITCH SHALL BE INSTALLED BY CONTRACTOR. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
5. FURNISH AND INSTALL A MULTI-CONNECT 2-GANG RECESSED WALL BOX IN APPROXIMATE LOCATION SHOWN. HUBBELL CAT. #HBLHSCS21110 OR APPROVED EQUAL. COORDINATE WITH ARCHITECT AND WSU FOR EXACT LOCATION. RUN A 2" CONDUIT FROM THIS J-BOX TO CEILING PLENUM. TURN THE CONDUIT 90°, PROVIDE PLASTIC BUSHING AND PULL STRING.
6. REINSTALL EXISTING HORN/STROBES IN THE APPROXIMATE LOCATIONS SHOWN. TIE THE HORN/STROBES TO EXISTING FIRE ALARM SYSTEM IN CLASS "A" LOOP. IN AND OUT CABLES MUST RUN IN A SEPARATE CONDUIT. TEST FOR PROPER OPERATION. EXTEND EXISTING CONDUIT TO NEW LOCATIONS. PROVIDE ADDITIONAL CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION. FIRE ALARM SYSTEM IS TO BE RECERTIFIED AFTER PROJECT COMPLETION. DO NOT SPLICE THE CABLE BETWEEN DEVICES.
7. FURNISH AND INSTALL DUPLEX OUTLET IN CEILING PLENUM FOR CEILING MOUNTED PROJECTOR. TIE OUTLET TO 20 AMP, 1-POLE EXISTING CIRCUIT. UTILIZE EXISTING CONDUIT AS POSSIBLE. PROVIDE ADDITIONAL CONDUIT AND CONDUCTORS AS REQUIRED.
8. FURNISH AND INSTALL A 4"x4"x2-1/8" J-BOX WITH SINGLE GANG MUD RING IN THE WALL FOR VOICE/DATA JACKS. RUN (2) 1" CONDUITS FROM J-BOX TO CEILING PLENUM. PROVIDE PLASTIC BUSHING AT THE END OF CONDUIT. INSERT PULL STRING AND LABEL.
9. TIE FIRE/SMOKE DAMPERS TO EXISTING 20 AMP, 1-POLE CIRCUIT IN THE ROOM. UTILIZE EXISTING CONDUIT AS POSSIBLE. PROVIDE ADDITIONAL CONDUIT AND CONDUCTORS AS REQUIRED.

CRSA

ARCHITECTURE
PLANNING
INTERIORS

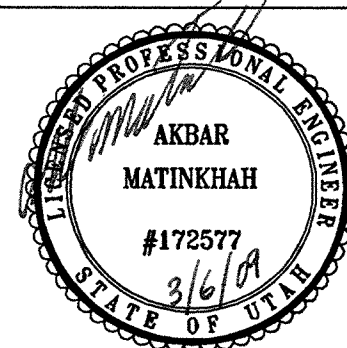
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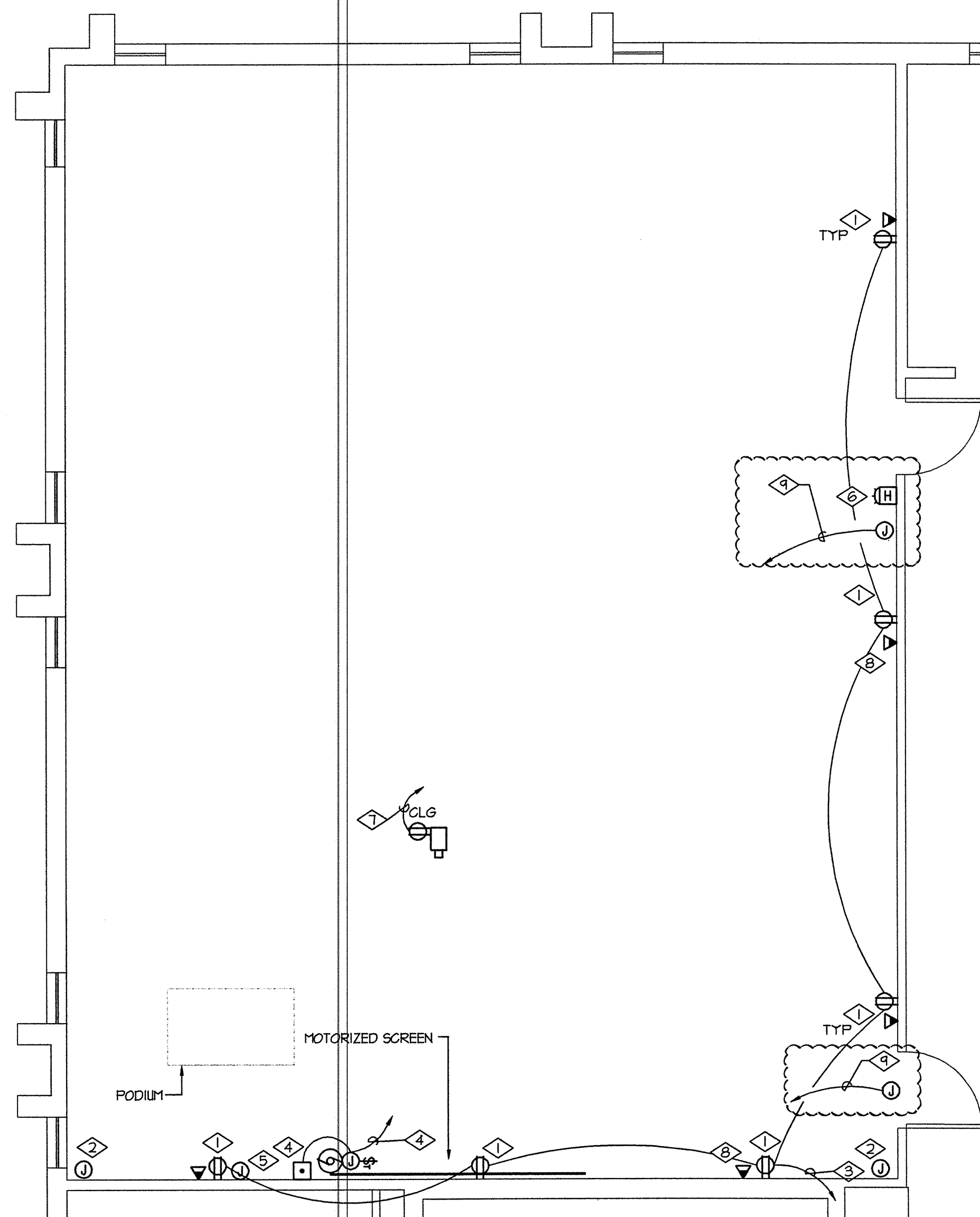
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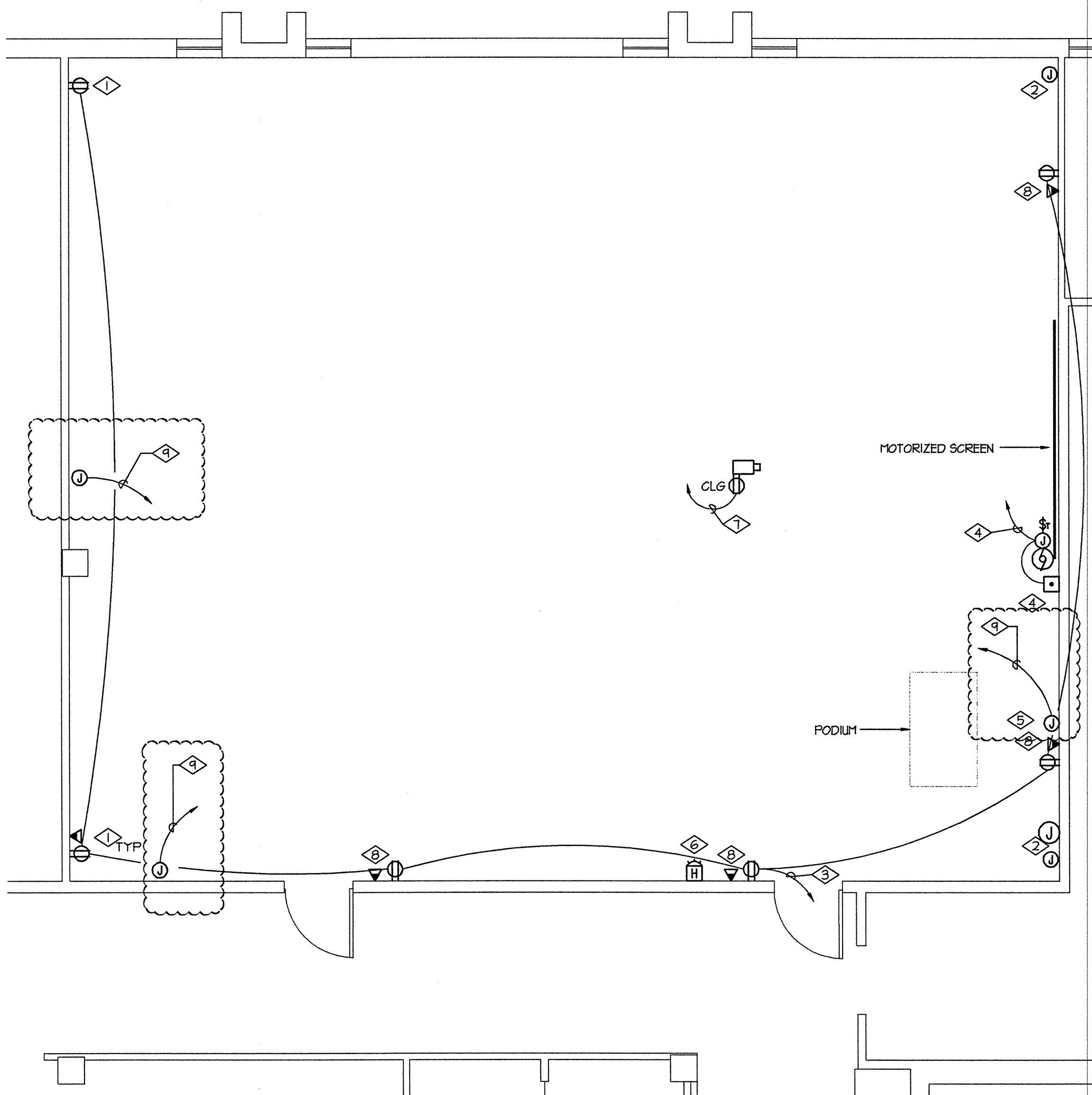
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FLOOR PLAN -
ELECTRICAL

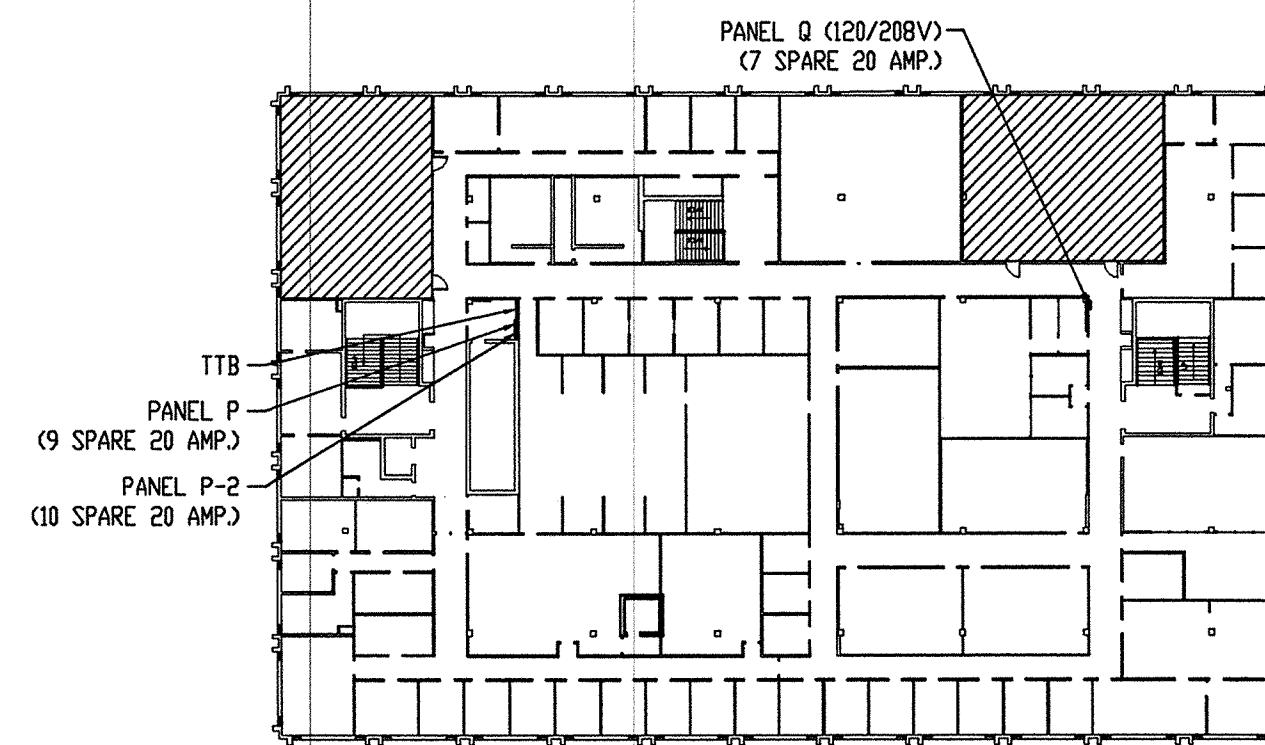
E-101



3RD FLOOR PARTIAL FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



3RD FLOOR PARTIAL FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



KEY PLAN

REFERENCE NOTES:

1. FURNISH AND INSTALL NEW EXIT SIGNS IN THE APPROXIMATE LOCATION SHOWN. TIE TO AN UNSWITCHED LIGHTING CIRCUIT IN THE AREA.
2. TIE ONE LAMP IN THE INDICATED FIXTURES TO A 90 MINUTE (100 LUMENS) BATTERY PACK. TIE THE BATTERY PACK TO UNSWITCHED LIGHTING CIRCUIT. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION. UPON FAILURE OF THE NORMAL POWER SOURCE THE LIGHT SHALL TURN ON REGARDLESS OF THE POSITION OF THE SWITCH.
3. TIE THE NEW LIGHT FIXTURES TO THE EXISTING UNSWITCHED LIGHTING CIRCUIT THROUGH NEW DIMMER SWITCHES. UTILIZE EXISTING CONDUIT AND CONDUCTORS AS POSSIBLE. PROVIDE ADDITIONAL CONDUIT AND CONDUCTORS AS REQUIRED FOR A COMPLETE INSTALLATION.
4. TIE DOWNLIGHT FIXTURE TO NEAREST 120 VOLT UNSWITCHED CIRCUIT. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
5. FURNISH AND INSTALL SLIDER DIMMER SWITCH FOR THE TYPE OF LOAD SHOWN (FLUORESCENT AND INCANDESCENT LAMPS). LUTRON AND LIGHTOLIER ARE APPROVED MANUFACTURERS. COLOR TO MATCH OTHER DEVICES. FLUORESCENT DIMMERS TO BE 1500 WATTS.

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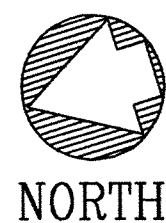
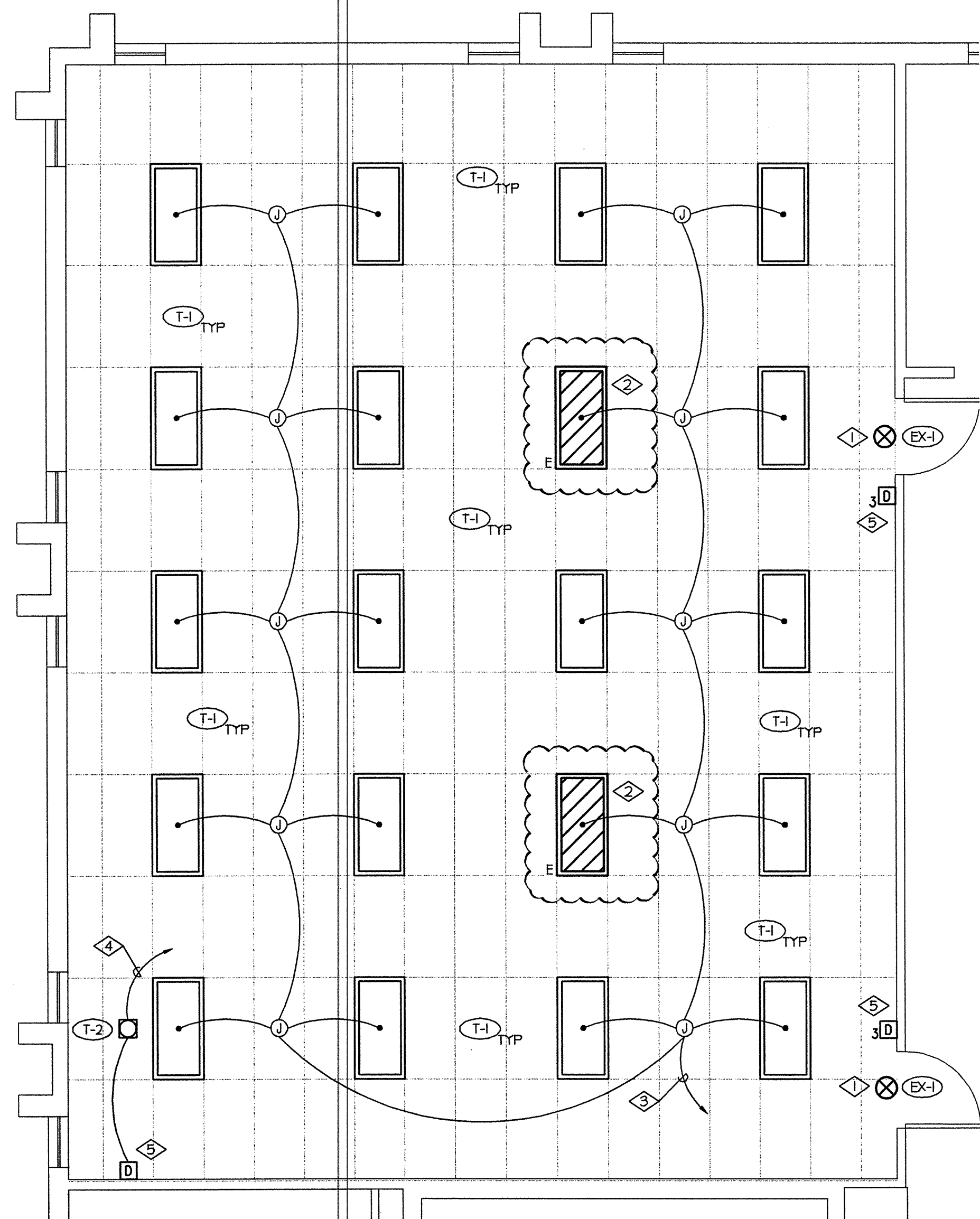
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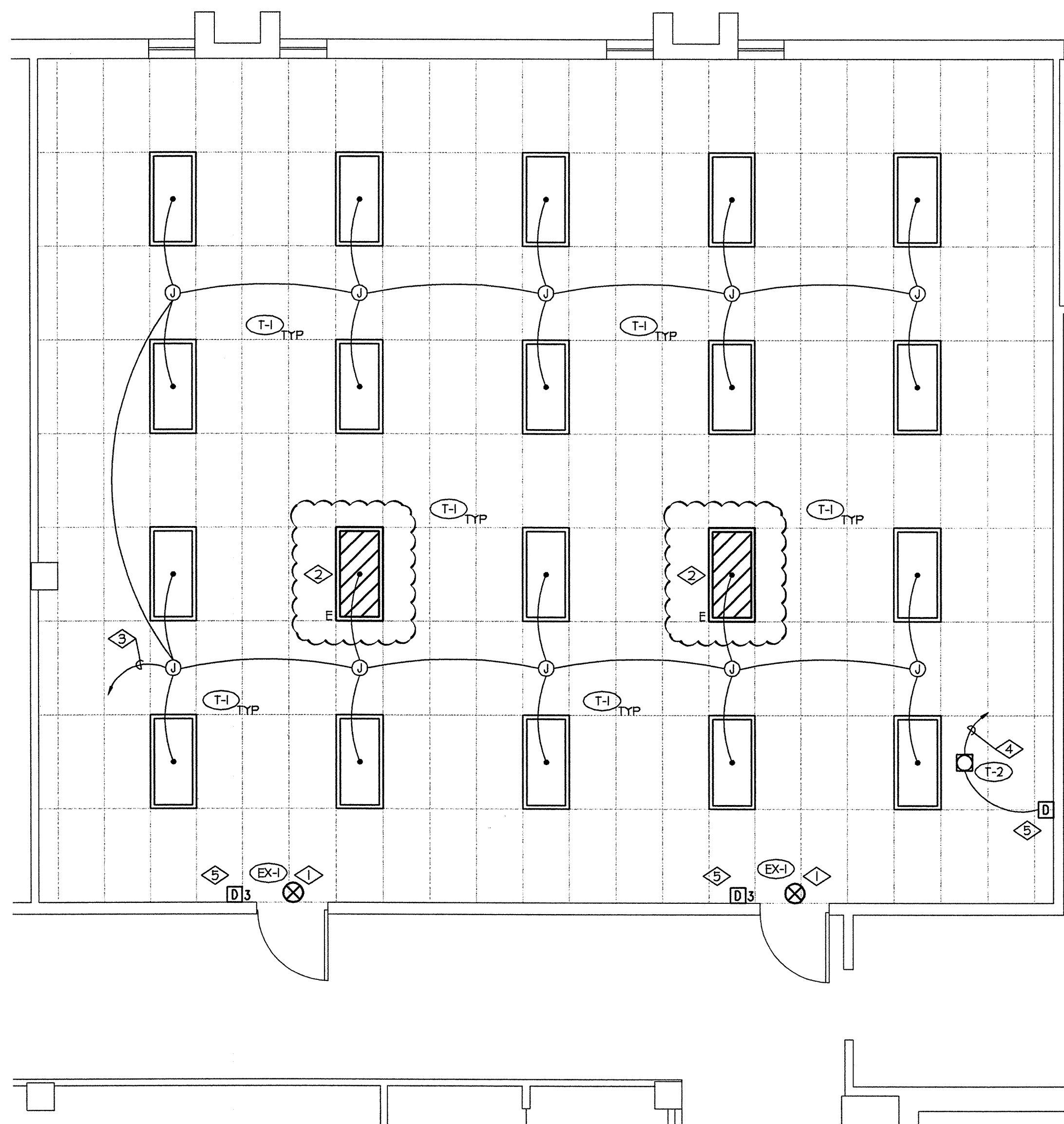
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FLOOR PLAN -
LIGHTING

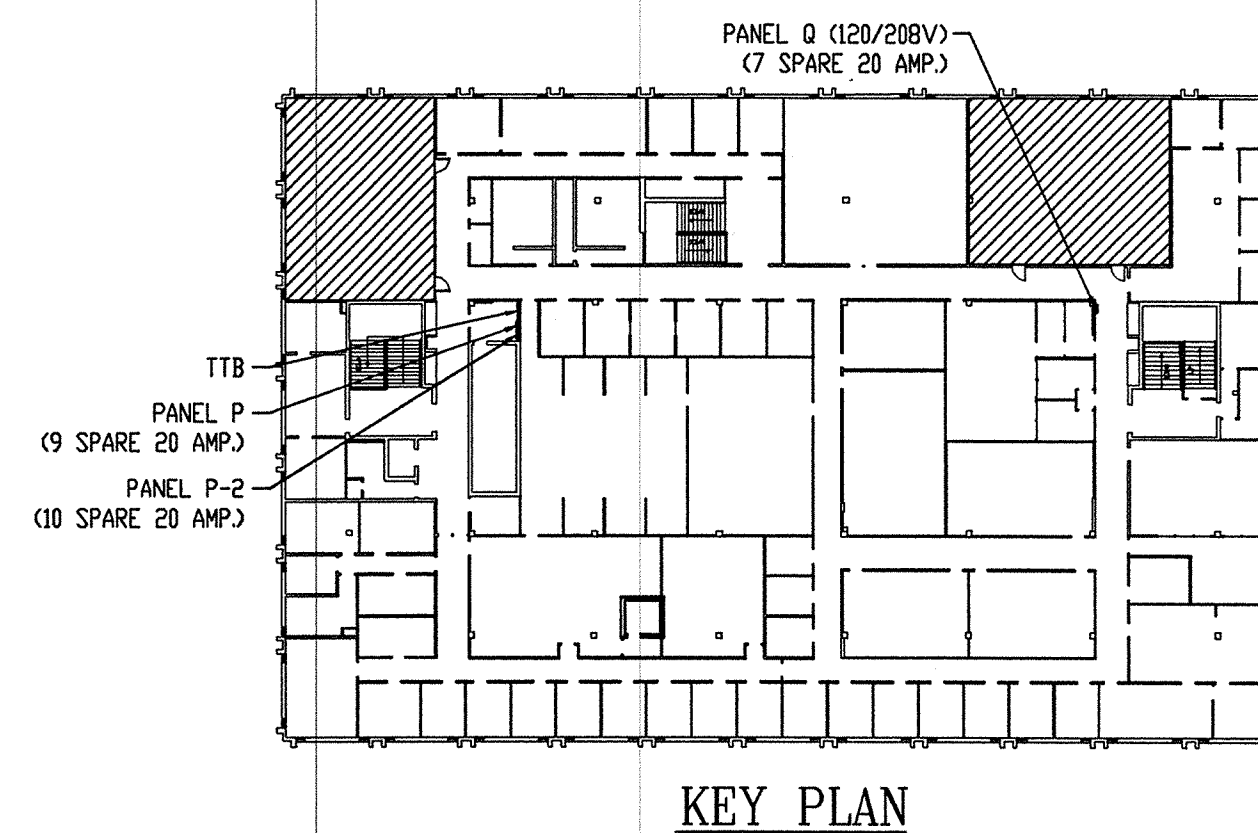
E-201



PARTIAL FLOOR PLAN - LIGHTING
SCALE: 1/4" = 1'-0"



PARTIAL FLOOR PLAN - LIGHTING
SCALE: 1/4" = 1'-0"



KEY PLAN